ORDER NO. VSD9612MJ01A

# Service Manual

## Volume 1

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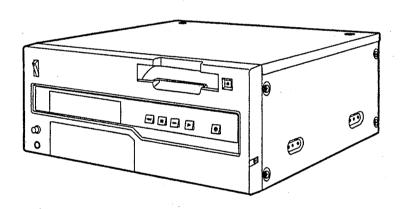
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Digital Video Cassette Recorder

AJ-D650E AJ-D640E



Please refer to the Service Manual Volume 2 (order No. VSD9612MJ01B) for block diagrams, schematic diagrams and circuit board diagrams.

## **Panasonic**

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## **Specifications**

## **GENERAL**

Power supply:

AC 220 V - 240 V ± 10%, 50 - 60 Hz

Recorded in sub-code area

10% to 90% (no condensation)

Power consumption:

150 W

16 kg

Operating ambient temperature: 5°C to 40°C

Operating ambient humidity: Weight:

Dimensions (W×H×D): Recording format: Recording tracks:

424×175×415 mm **DVCPRO** format

Digital video Time code

> Digital audio 2channels **Cue Track** 1 track Control (CTL) 1 track

Tape speed: Recording time: 33.854 mm/sec General purpose

cassette; Max. 123 minutes

News-gathering

cassette; Max. 63 minutes

1/4-inch thin magnetic layer metal tape Tape: FF/REW time: Less than 3 min (with general purpose

cassette)

Less than 2 min (with news-gathering

cassette)

Search speed: Digital slow motion: 0 to ±60× normal speed (colour) +0.75× normal speed in + direction -0.43× normal speed in - direction

Editing accuracy: Tape timer accuracy: Servo lock time:

±0 frame (using time code) ±1 frame (using continuous CTL signal) Less than 0.5 sec. (colour framing/

standby ON)

**VIDEO** 

(Digital video)

Sampling frequencies: Quantizing:

Y: 13.5 MHz/PB, PR: 3.375 MHz 8 bits Reed-Solomon product code

Error correction:

(Digital IN/analog component OUT)

Video bandwidth:

Y: 25 Hz to 5.5 MHz (±1.0 dB) PB, PR: 25 Hz to 1.3 MHz (±1.0 dB)

S/N ratio: K factor:

Better than 60 dB

(Analog component IN/component OUT)

Video bandwidth:

Y: 25 Hz to 5.5 MHz (-1.5 dB to +1.0 dB)

Рв, Pr: 25 Hz to 1.3 MHz (-2.0 dB to +1.0 dB)

S/N ratio:

55 dB (Typ) Less than 2%

K factor:

(Analog composite IN/composite OUT)

Video bandwidth:

Y: 25 Hz to 5.5 MHz (-3.0 dB to +1.0 dB)

Y/C delay:

Better than 20 ns Less than 3%

K factor:

(Video input connector)

Analog component input:

BNC×3 (Y, PB, PR) Y: 1.0 Vp-p, 75Ω Ps, Pr: 0.7 Vp-p 75Ω (100% colour bar)

Analog composite input:

S VIDEO input:

BNC×2, loop-through, 75Ω on/off

S terminal (4-pin)×1 Y: 1.0 Vp-p, 75Ω C: 0.3 Vp-p (burst), 75Ω

Reference input:

Analog composite BNC×2, loop-through, 75Ω on/off

Serial digital component input

(option):

Complies with EBU Tech. 3267-E, BNC×2, active through

(Video output connector)

Analog component output:

BNC×3 (Y. Ps. Pr.) Y: 1.0 Vp-p, 75Ω PB, PR: 0.7 Vp-p  $75\Omega$ (100% colour bar)

Analog composite output:

Video1/video2/video3 (superimpose

on/off)

BNC×3

S VIDEO output:

S terminal (4-pin)×1 Y: 1.0 Vp-p, 75Ω C: 0.3 Vp-p (burst), 75Ω

Serial digital component output

(option):

Complies with EBU Tech. 3267-E,

Control from ENCODER

REMOTE connector

BNC×3

(Video signals adjustment)

Video output gain: Video output chroma gain:

Video output hue:

Video output setup:

±3 dB ±3 dB ±30°

±100 mV +2 //5

Video output sync phase: Video output SC phase:

+180°

**AUDIO** 

(Digital audio)

Sampling frequencies:

48 kHz 16 bits

Quantizing: Frequency response:

20 Hz to 20 kHz (-1.0 dB to +0.5 dB)

Dynamic range:

Better than 86 dB (1 kHz, emphasis OFF,

"A" weighted)

Distortion: Less than 0.1% (1 kHz, emphasis OFF, standard level)

Crosstalk: Less than -80 dB (1 kHz, between

2 channels)

Wow & flutter: Below measurable limits 18 dB

Headroom:

De-emphasis:

T1=50 //s/T2=15 //s (on/off automatic)

(Cue track)

Frequency response:

300 Hz to 6 kHz ±3 dB

(Audio input connector)

Analog input (CH1/CH2):

XLR×2, 600Ω/high impedance selectable, +4/0/-20/-60 dBu

Digital input (CH1/CH2) (option): BNC×1, AES/EBU format

Serial digital input (option):

Complies with EBU Tech. 3267-F.

(BNC)

(Audio output connector)

Analog output (CH1/CH2):

Digital output (CH1/CH2)

XLR×2, low impedance, +4/0/-20 dBu

(option):

Serial digital output (option):

BNC×1, AES/EBU format Complies with EBU Tech. 3267-E (BNC 75Ω)

Monitor output:

Phono×1, 600 Ω, -8 dBV

Headphones:

Variable level, 6 mm phone,  $8\Omega$ 

Other input/output connector

Time code input: Time code output: BNC×1, 0.5 to 8 Vp-p BNC×1, 2.0 Vp-p

RS-422A input/output: RS-232C:

D-sub 9-pin, RS-422A interface D-sub 25-pin, RS-232C interface

Encoder remote:

D-sub 15-pin

Weight and dimensions when shown are approximately. Specifications are subject to change without notice.

## SAFETY PRECAUTIONS

## **GENERAL GUIDELINES**

- When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

## LEAKAGE CURRENT COLD CHECK

- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1 MΩ and 5.2 MΩ.

When the exposed metal dose not have a return path to the chassis, the reading must be  $\infty$ .

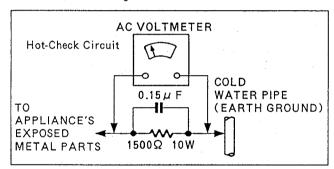


Figure 1

## LEAKAGE CURRENT HOT CHECK (See Figure 1)

- Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
- 2. Connect a  $1.5 \, \mathrm{K}\, \Omega$ , 10W resistor, in parallel with  $0.15 \, \mu$  F capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

## **ELECTROSTATICALLY SENSITIVE (ES) DEVICES**

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
  - Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- Use only a grounded tip soldering iron to solder or unsolder ES devices.
- Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- Immediately before removing the protective material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
  - CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- 8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless mother such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

## X-RADIATION

## WARNING

- The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
- When using a picture tube test jig for service, ensure that jig
  is capable of handling 10kV without causing X-Radiation.
   NOTE: It is important to use an accurate periodically
  calibrated high voltage meter.
- 3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ± 0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

## **IMPORTANT**

"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

## **■ THIS APPARATUS MUST BE EARTHED**

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal house-hold wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

## ■ DO NOT REMOVE PANEL COVER BY UN-SCREWING

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. And do not insert fingers or any other objects into the video cassette holder.

## **WARNING:**

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

## **CAUTION:**

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSOIRES ONLY.

## **CAUTION:**

To reduce the risk of fire or shock hazard, refer change of switch setting inside the unit to qualified service personnel.

## Operating precaution

Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio singals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

☐ is the safety information.

## Attention/Attentie

- This apparatus contains a lithium battery for memory back-up.
- For the removal of the battery at the moment of the disposal at the end of the service life please consult your dealer.
- Do not throw away the battery. Instead, hand it in as hazardous waste.
- Dit apparaat bevat een lithiumbatterij voor memory back-up.
- Raadpleeg uw leverancier over de verwijdering van de batterij op het moment dat u het apparaat bij einde levensduur afdankt.
- Gooi de batterij niet weg, maar lever hem in als KCA.



## Memo

## SECTION 1

## **OPERATING INSTRUCTIONS**

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# General and Features

It incorporates digital compression technology so that the deterioration in picture quality and sound quality resulting from dubbing is significantly minimized compared with existing This unit is a digital video cassette recorder which uses 1/4-inch tapes.

Furthermore, since it has a compact 4U size and light weight, the unit can be carried around analog systems.

or mounted in a 19-inch rack with ease. The settings for the unit's setup can be performed while viewing the screen menus on the TV monitor. With the AJ-D650 unit, both assemble and insert editing are possible through external control.

## Features

Compact size and light weight This is a 4U size digital VTR. It can be mounted in a 19-inch rack with ease using the optional rack-mounting adaptors (AJ-MA34HP).

**Up to 123 minutes of recording**Two sizes of cassette tapes can be used with this unit: the news-gathering cassette (max. 63 minutes) and general purpose cassette (max. 123 minutes). The width of the tapes measures 1/4 inch to achieve a compact design.

# Compatibility with consumer products

Consumer cassette tapes shot with digital cameras available on the consumer market can be played back on this unit using the optional cassette adaptor (AJ-CS750P).

Slow playback of consumer cassette tapes will not produce the smooth operation produced by slow playback of DVCPRO cassette tapes.
 Consumer cassette tapes recorded in LP mode cannot be played back.

**Digital slow motion/jog** Noiseless images can be played back from speeds ranging from still picture to approx.  $\pm 1/2 \times$  normal tape speed through the external controller.

Some noise may occur when the slow motion speed is changed.

When slow motion playback is used, the top and bottom of the screen shift.

## Time codes

This unit comes with a built-in time code generator (TCG)/time code reader (TCR). In addition to the internal time code, time code facilities include external time code input as well as recording of the input signal VITC code.

# Multi-function input/output interfaces

· Analog input/output

Component (Y, PB, PB) and composite and S-VIDEO signal input and output connectors are

Digital audio input/output
AES/EBU audio input/output is possible when the optional digital audio interface board (AJ-

 Serial digital input/output
 Serial digital (EBU Tech. 3267-E) input/output is possible when the optional component serial interface board (AJ-YA750P) is used. YA655P) is used.

The AJ-YA655P board, sold separately, is necessary when using serial digital audio (EBU ech. 3267-E).

9-pin (RS-422A)(RS-232C) remote
 The standard 9-pin serial (RS-422A) connector or an optional RS-232C connector is used.

Ë2.

**−** E-6 −

## Features (continued)

# 2-channel high-sound-quality digital audio

Sound can be edited separately for two channels, and channel mixing capabilities are also information selected from audio CH1 and CH2 can be recorded in the cue track memory. available. One channel is provided for the analog cue track. (Set at the set up menu.)

Cue track input and output connectors are not provided.

# Dialy jog/shuttle operation is possible through the external controller

Shuttle operations can be performed up to 60× normal tape speed in both forward or All playback is free of noise bars with jog operations Performed when the variable range is set between -0.43 and  $+1\times$  normal tape speed.

everse directions. Colour images are well-defined even druing high-speed searches.

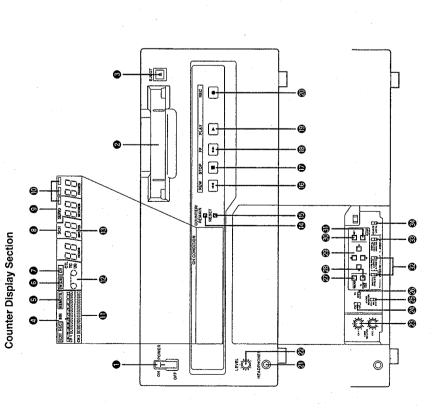
Automatic editing functions from the external controller (only AJ-D650) AJ-D650 allows both assemble and insert editing from the external controller.

Menu-driven setup

The setup settings, which are conducted prior to operating the unit, are performed while viewing the screen menus either on the unit display or TV monitor.

# Controls and their functions

## Front panel



## POWER switch

When the ON side is pressed, the power is switched on, and the counter display lights up.

# Ocassette insertion slot

general-purpose cassette and consumer cassette with Consumer cassettes can be played back only. adaptor are inserted into this slot. The news-gathering cassette,

## **BEJECT** button

When this is pressed, the tape is unloaded and several seconds later the cassette is automatically ejected. When the counter display indicates "CTL", the display is reset.

# DEDIT/EDIT REC/REC/REC INH lamps

EDIT: This lights when the editing mode is chosen from the 9P remote control. EDIT REC: This lights when editing from the 9P remote control.

REC: This lights during video recording.

REC INH: This lights when the accidental erasure prevention mode has been set for the cassette. In this state, neither recording nor editing is possbile.

**© REMOTE** lamp

This lights when the REMOTE/LOCAL switch has been set to the REMOTE position.

This lights when the unit is in 16:9 wide screen mode. WIDE lamp

# O Consumer cassette insertion display lamp

This lights when a cassette recorded on a consumer DV device has been inserted.

**© SCH** lamp
This lights when the SCH of the external sync signal is within a specific range.

## SERVO lamp

This lights when the drum servo and capstan servo have locked.

# Channel condition lamps

Green: This lights when the error rates for the video and audio playback signals are One of these lamps lights in accordance with the error rate status. (Green-blue-red)

This lights when the error rate for the video or audio playback signals has Blue:

both acceptable.

deteriorated.

The playback picture will remain normal even when this lamp lights. This lights when the video or audio signals are subject to rectification or

## Level meters

These indicate the PCM audio signal CH1/CH2. The audio signal indicates the input signal levels during recording and EE selection, and the output signal levels during playback.

© Cassette insertion display lamp
This lights when a cassette has been inserted into the unit.

© Counter display The TC and CTL count values, on-screen information and other messages.

# Controls and their functions (continued)

# O COUNTER/REMAIN button

This switches between the tape counter tape time indicator and the remaining tape indicator. [r \*\*\*] is displayed in the case of the remaining tape indicator. After the cassette tape is inserted, [r ---] (---- flashes) is displayed until remaining tape is calculated, and [r EJ] (EJ flashes) when ejecting the tape.

## RESET button

During menu setup, initial setting values are restored when the RESET button is pressed. When this is pressed during CTL mode, the counter returns to the 00:00:00:00 display.

## 

The tape is rewound when this is pressed.

The unit goes into shuttle (SHTL) mode at –9.5  $\times$  normal tape speed when this button is pressed together with the PLAY button.

## STOP button

When this is pressed, the tape stops traveling, and if the setup menu No. 111 (STOP EE

The drum continues to rotate even in the stop mode, and the tape remains in close SEL) is set to TAPE, still pictures can be monitored.

If the stop mode continues for more than a certain period of time, the unit automatically contact with the drum.

The stop mode is established immediately after a cassette has been inserted into the switches to the standby OFF mode in order to protect the tape.

The tape is fast forwarded when this is pressed.

The unit goes into shuttle (SHTL) mode at +9.5  $\times$  normal tape speed when this button is pressed together with the PLAY button.

## PLAY button

Playback commences when this button is pressed. Recording commences when the button is pressed together with the REC button.

When it is pressed during playback, search\*2, fast forward or rewind, EE mode images Recording commences when this button is pressed together with the PLAY button. ® REC button

and audio signals can be monitored for as long as it is kept depressed.

When it is pressed in the stop mode, EE mode images and sound can be monitored. When the STOP button is pressed, the original picture and sound are restored.

"The FF/REW speed can be selected on the setup menu NO. 102 (FF, REW MAX), and it is set to the same speed.

\*\* No guarantee is made for the audio EE mode.

# D Headphones jack

The sound being recorded, played back or edited can be monitored on stereo headphones when they are connected to this jack.

## Volume control

Whether the headphones output and monitor output volumes are to be linked or kept separate can be set on-screen menu. (Note that the headphones output volume This is used to adjust the headphones volume and the monitor output volume. normally linked.)

When the volumes are kept separate, the monitor output is set to the unity value (preset value).

# Audio recording level controls

These are used to adjust the recording levels of the analog audio signal CH1/CH2.

# OCTL/TC/UB switch

Use this switch when selecting the counter display.

CTL: Tape timer (control signal) is displayed.

TC: Time code is displayed. **UB:** User bit is displayed.

# MONITOR SELECT switch

This is used to select the audio signals output to the monitor channel. (With the No. 713 (MONI CH SEL) setting on the setup menu, the display may not match the monitor output.)

## **DINT/EXT** switch

For using the bullt-in time code generator. For using the time code input connector For using the time external code which is input from the time code input connector or the video signal VITC. The selection is set at the setup menu.

## MENU button

When this is pressed, the setup menu appears on the TV monitor using VIDEO OUT 3 connector, and the setup menu No. appears on the display.

When it is pressed again, the setup mode is exited and the original operating mode is

# When this is pressed, the time code setting mode is established. TC PRESET (FILE) button

User file can be selected when the cursor buttons ( $[\![ \mathbf{d}], [\![ \mathbf{e}] ]\!]$ ) are used during the setup menu mode. (For details, see setup menu items on page E-27.)

# ® Cursor buttons (◀, ▶, ▲, ▼)

These are used when setting time codes and settings at menu setup.

Each time they are pressed, the flashing indicator moves incremently to the left or These change the flashing digit in the time code indicators. ... •

■ increments to the left. Increments to the right.

These change the flashing digit in the time code indicators.

Each time they are pressed, the indicated value increments and decrements.

■ The content of the ë T

▼ decrements the value; Linorements the value. The flashing digit changes continuously when the button is continously pressed. For details about operation during setup menu mode, see setup menu items (page E-26).

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# Controls and their functions (continued)

® SET button When this is pressed, the data which has been set on the setup menu is entered. After data entry, the setup mode is exited and the original operating mode is restored.

## **® DIAG button**

When this is pressed, VTR information is displayed. When it is pressed again, the original information. Swithcing between these types is enabled by pressing the cursor buttons There are two types of VTR information: "HOURS METER" information and "WARNING" display is restored.

(4) P).
Indicated on the "HOUR METER" screen are the power-on time, drum rotation time, tape travel time, loading count, etc. Indicated on the "WARNING" screen are the warnings.

# VIDEO INPUT switch

This switches the video input signal.

DIGITAL: For selecting serial component digital video signal (EBU Tech. 3267-E) ANALOG: recording."

For selecting analog video signal recording.
Select the analog video signal as follows to correspond with the input signal.
Y PB PR: For recording an analog component video signal.
GMPST: For recording an analog composite video signal.
S-VIDEO: For recording a S-VIDEO signal.

\*The optional AJ-YA750P serial interface board is necessary.

# ® AUDIO INPUT switch

This switches the audio input signal.

DIGITAL: For selecting serial digital audio signal (EBU Tech. 3267-E) recording."

AES/EBU: For recording a digital audio signal."

ANALOG: For recording an analog audio signal.

" Both the optional AJ-YA750P serial interface board and the optional AJ-YA655P digital audio interface board are necessary.
\*\*The optional AJ-YA655P digital audio interface board is necessary.

# ® REMOTE/LOCAL switch

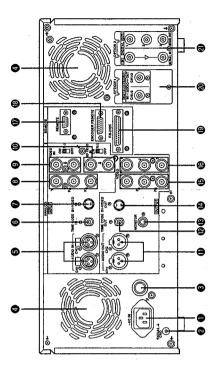
This switch is set when the unit is to be controlled from an external source using the

REMOTE connector or RS-232C connector (option).

REMOTE: Set to this position when controlling the unit by a device connected using the 9-pin REMOTE connector or RS-232C connector.

LOCAL: Set to this position when controlling the unit using the controls on its own operation panel.

# Connector area



# Controls and their functions (continued)

# <Connector area>

AC IN connector

This is for connecting the unit to the power outlet using the power cord provided

SIGNAL GND terminal

This terminal is connected to the signa unit which is connected to the unit in order to reduce noise. It is not connected to ground for safety purposes.

Fuse holder

This contains a fuse.

The error code is displayed on the counter when trouble has caused the fan motor to stop. If the unit is still operated in the warning status, the temperature inside the deck will rise, and when it exceeds the safety temperature, all the unit's operations will be shut This is for cooling the unit.

ANALOG AUDIO IN connectors

These are the analog audio input connectors.

**®** TIME CODE IN connector

This is the connector for recording the external time code on the tape.

S1-VIDEO IN connector

This is the S-VIDEO input connector.

**®** ANALOG COMPONENT VIDEO IN connector

The analog component video signal is supplied to this connector.

The analog composite video signal is supplied to these two connectors which are connected in a loop-through configuration. When the termination is required, set the ANALOG COMPOSITE VIDEO IN connectors and 750 termination switch switch to ON.

These are the input connectors for the reference video signals. When the termination is required, set the switch to ON.

**(D)** ANALOG AUDIO OUT connectors

The analog audio signals are output from these connectors.

D TIME CODE OUT connector

The playback time code is output from this connector during playback.

During recording, the time code generated by the internal time code generator is output.

**MONITOR OUT connector** 

The playback signals from the CUE track or PCM audio signal CH1/CH2 are output from this connector.

# <Connector area>

S1-VIDEO OUT connector

This is the S-VIDEO output connector.

**BANALOG COMPONENT VIDEO OUT connector** 

The analog component video signal is output from this connector.

The analog composite video signals are output from these connectors. **® ANALOG COMPOSITE VIDEO OUT connectors** 

The superimpose function can be set ON or OFF on the setup menu No. 006 (SUPER), connector

The video signal with signals superimposed on it can be output from the VIDEO OUT3

® REMOTE connector

The unit can be controlled from an external source by connecting an external controller. **® ENCODER REMOTE connector** 

The external encoder/controller is hooked up to this connector when the video output

signal and other settings are to be adjusted from an external source.

® RS-232C connector

@DIGITAL AUDIO IN/OUT connector (optional AJ-YA655P required.)

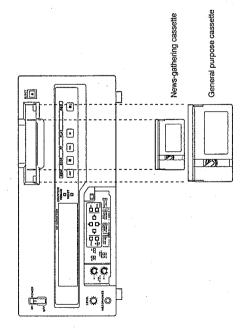
This I/O connector is for digital audio signals which comply with the AES/EBU standard. **30 SERIAL DIGITAL COMPONENT AUDIO/VIDEO IN/OUT connector** 

This I/O connector is for digital component audio and video signals which comply with the EBU Tech. 3267-E standard. The optional AJ-YA655P is required for digital audio signal output on the AJ-YA750P (optional AJ-YA750P interface board required)

Three types of tapes can be used with the unit.

Туре	Description
Consumer cassette	Tape designed exclusively for the camcorders used by consumers in general. Only playback is possible using the optional cassette adaptor.
News- gathering cassette	Recording/playback tape with a maximum capacity of 63 minutes. (AJ-P12MP, AJ-P23MP, AJ-P33MP, AJ-P63MP)
General purpose cassette	Recording/playback tape with a maximum capacity of 123 minutes. (AJ-P64LP, AJ-P94LP, AJ-P123LP)

Align the cassette with the centre of the insertion slot and push it in gently. The cassette tape is loaded automatically.



«Notes for playback of consumer DV cassette tape»

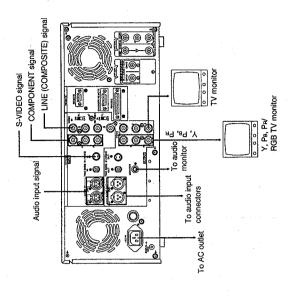
Consumer tapes are for playback only, they cannot be recorded upon by the AJ-D640/AJ-

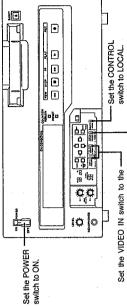
- 650.
  Consumer cassette tapes recorded in LP mode cannot be played back.
  Material recorded on consumer tape must be played back and edited to another professional VTR.
  - The recording functions, recording, Tape/EE and others will not function when Consumer tape is inserted in the VTR.
    - Consumer tape FF/REW speed is VTR limited to ±32X. Slow motion playback of consumer
- In order to protect the tape, the maximum STILL TIMER for consumer tape is 10 seconds, and the available time for leaving the tape in STILL mode during STEP FWD mode is set format tapes may not be perfect.
- Control (CTL) signals are not displayed when consumer tapes are used. Only the time code is displayed.

– E-15 –

# When recording/playback using 1 unit

Set the CONTROL switch on the front panel to LOCAL





Set the VIDEO IN switch to the following positon:

Set the AUDIO IN switch to the "DIGITAL" for serial component

following positon:

digital video signal input.

Set the VIDEO IN to ANALOG and select as following for the analog input: "DiGITAL" for serial component

• "Y PB PR" for analog component video signal input. • "CMPST" for analog compo-

site video signal input.

• "S-VIDEO" for S-VIDEO signal input.

signal input.

•"ANALOG" for analog audio signal input. digital audio signal input.

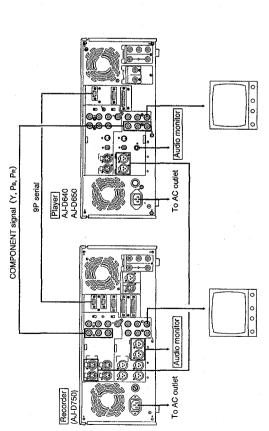
"AES/EBU" for digital audio

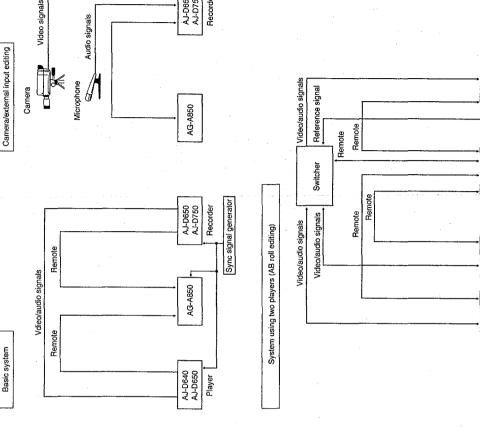
- E-16 -

# When recording, playback & editing with 2 units (deck to deck)

When using an editing controller

The CONTROL switch on the recorder must be set to the LOCAL position, and the CONTROL switch on the player must be set to the REMOTE position.





AJ-D650 AJ-D750 Recorder

For further details, refer to the Operating Instructions of the AG-A850 editing controller (optional accessory).

- E-18 -

Sync signal generator

AJ-D650 AJ-D750

AG-A850

AJ-D640 AJ-D650

AJ-D640 AJ-D650 Player 1

Player 2

Recorder (AJ-D750)

Player AJ-D640 AJ-D650

--- Set the CONTROL switch to REMOTE.

Set the POWER switch to ON.

Set the CONTROL switch to LOCAL.

Set the AUDIO IN switch to the

Set the VIDEO IN switch to the following position:

Set the POWER switch to ON.

"SERIAL I/F" for serial component digital audio signal input.
 "AES/EBU" for digital audio

signal input.

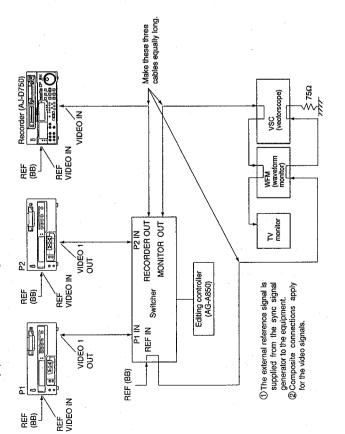
• "ANALOG" for analog audio signal input.

• "SERIAL IIP" for serial component digital video signal input.

• "Y B PP" for analog component video signal input.
• "CMPSI" for analog composite video signal input.

In order to ensure error-free and accurate editing during AB roll editing (a method of editing using two source VTRs) using an editor, the ENCODER OUT controls must be adjusted after the system has been connected. (These controls must be re-adjusted each time the connecting cables are replaced or the connections are

Connect the equipment as shown in the figure below.



1-8

If a waveform monitor and vectorscope are not available, correct any colour shifting while actually monitoring the picture on the TV monitor.

Check the connections. (see previous page.)

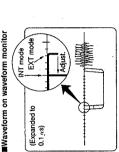
7

- Select [OFF] on ENCODER SEL at the set up menu. (See page E-28.) Select [ON] to operate the internal encoder externally.
- Adjust the SYSTEM PHASE.

က

بن ب

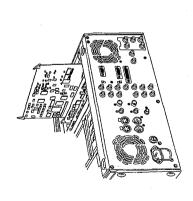
- On the P1 VTR, play back a cassette tape on which standard colour bar signals have been recorded.
- 3-2 Adjust P1 VTR SYS PHASE.
- Adjust the controls to the following with the waveform monitor (WFM).
- Expand WFM 0.1 μs on the INT mode.
   Check the H SYNC position.
   In this status, select EXT mode for the WFM.
   In this status, activating select EXT mode for the WFM.
   In EX status, select EXT mode for the WFM.
   In this order, at the set up menu to set H SYNC to its previous position.



(Observe the SYNC fall.)

4 Adjust the connected P2 VTR in the same way.

# Printed circuit board



Printed circuit board	Abbr. name	Full name	Function	Factory setting
F8 board ADDA- CUE	SW1	Audio Input Impedance SW	This sets the CH1 audio input impedance. HIGH/600Ω	HGH
	SW61	Audio Input Impedance SW	This sets the CH2 audio input impedance. HIGH/600Ω	HIGH

CAUTION:
TO REDUCE THE RISK OF FIRE OF SHOCK
HAZARD, REFER CHANGE OF SWITCH
SETTING INSIDE THE UNIT TO AUTHORIZED
SERVICE PERSONNEL.

# Switching on the power/inserting the cassette

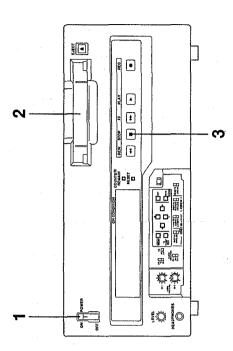
Before starting to operate the unit, check whether the equipment has been connected properly.

Turn on the power.
Check that the error indicator is not displayed on the counter.

0

Insert the cassette tape. Insert the tape at its proper position without force. (See page E-15.)

Check that the STOP lamp is on. When the tape is loaded and the unit goes into the stop mode. က



# STOP mode

When the STOP button is pressed, the unit goes into the stop mode. The STOP lamp

lights and the tape stops traveling.

• In order to protect the tape, the unit goes into the standby OFF mode after the time set by setting menu No.400 (STILL TIMER) has elapsed. When the STOP, REW, FF or PLAY button is pressed, the unit will go into the appropriate mode.

Still Timer Setting
In order to protect the tape and VTR helical heads, it is recommended that the Still Timer be set for automatic tape protection mode in 30 seconds or under.

Page E-33 indicates the settings for menu item 400-Still Timer set. Still Timer settings 4 and below will best protect the tape.

Recording

Set the accidental erasure prevention tab on the cassette tape to the "recording" position and insert the tape.

Press the STOP button to place the unit in the stop mode. 2

Check that the REC INHIBIT lamp is off. က Select the video and audio input signals and adjust their levels.

4

Selecting video/audio input signals 4-

Select the input signals using the INPUT SELECT switches on the front Connect the signals to be recorded.

4-2 Adjusting the audio level

Adjust the audio input signal levels of the analog audio CH1/CH2 signals. When set at the centre position, audio signals will be recorded at the proper level.

Press the PLAY button while holding down the REC button. The REC and PLAY lamps light, and recording commences. 2

Recording is ended, and the unit goes into the stop mode. To end the recording, press the STOP button. 9

Check that the SERVO lamp is lighted during recording. If it flashes or if it is off, the

images played back will be disturbed.

• The sound and pictures to be recorded are offset from the playback pictures by at least 5 frames and recorded. When, for instance, recording sound at a particular timing while the playback pictures are monitored, the sound to be edited will be recorded at a position which is offset from the playback pictures by 5 frames.

9 REC • • 1 = PENANN PENANN PESSET ON FEBRUARY  - E-24 -

Insert the cassette tape, and place the unit in the stop mode.

Press the PLAY button.

7

Regular playback is now commenced.

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To end playback, press the STOP button. The VTR now goes into the stop mode.

Note>

 Check that the SERVO lamp is lighted during playback. If it flashes or if it is off, the images played back will be disturbed.

# Setup (default settings)

The unit's major settings are performed by making selections on menus. The setting menus appear on the TV monitor when the TV monitor and VIDEO OUT 3 connector in the unit's connector area are hooked up.

Changing the settings **~** 

Press the MENU button.

The setup menu appears on the TV monitor and setup menu No. appears on the counter display. (If the setup has already been performed, the screen showing the changes made last will appear.)

7

Press the cursor buttons ( $[\blacktriangle, \blacktriangledown]$ ) and select the item to be set. The cursor (\*) on the menu screen moves and the item No. on the display flashes.

• When the  $\boxed{\blacktriangledown}$  button is pressed, the item No. is incremented for 001  $\rightarrow$  002  $\rightarrow$  003  $\rightarrow$  004  $\rightarrow$  and so on; when the  $\boxed{\blacktriangledown}$  button is pressed, the item No. is decremented.

Press the cursor buttons (◀, ▶) at the position where the change is to be made. The menu screen and display setting No. now flashes. When the ▶ button is pressed, the setting No. is incremented; when the ◀ button is pressed, it is decremented. က

Repeat steps 2 and 3 to change other items. 4

Press the SET button. 2

The changes are now stored in the memory.

• To return the items to the settings established before the changes were made, press the MENU button without pressing the SET button.

To return the setup settings to the factory (initial) settings, press the RESET button while the menu is displayed.

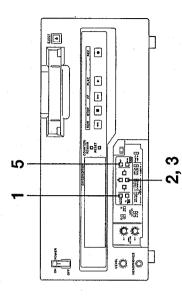
The following message is displayed.

YES<PLAY>/NO<STOP> SETUP-MENU INIT SET

When the PLAY button is pressed, the factory settings are restored.

 When the RESET button is pressed to return to the factory settings, the factory settings are restored only for the user file currently being used and other user files are not affected.

• The changed SYSTEM menu contents are stored in the memory even if the MENU button is pressed.



– E-26 –

This unit can store up to 5 user files (user 1 to user 5) containing different menu settings, and these files can be selected and used.

# Changing the file

- Press the MENU button.

  | Press the MENU button.

  | Press the MENU button and press the cursor button | P to switch to the next user | P to switch to the previous | P to switch to the pr file. Hold down the FILE button and press the cursor button [4] to switch to the previous user file.

- Each user file contains the following items.

   BASIC
   OPERATION
   INTERFACE
   EDIT
   TAPE PROTECT
   TIME CODE
   VIDEO
   AUDIO

- Repeat the operation in step 2 to select the user file to be used and press the SET button. The user file is changed and stored in the memory.

SYSTEM menu items are not included in user files 1 to 5.
 Therefore, after selecting the user file, switch to the SYSTEM file and set the SYSTEM menu items.

# SYSTEM menu <SYSTEM>

	Description	System phase rough adjustment: 90° units	<note></note>	When shipped from the factory, the setting values do not change even if setting operations are performed.	System phase fine adjustment: Total variable range:±90° or	more	-: advanced +: delayed		System phase adjustment: ±2, rsec (SC cycle phase)	-: Advanced	+: Delayed	Allocations of from the forteer the coffice reduce do not	when supped non the raciny, the setting values do not change even if setting operations are performed.	This selects whether the ENCODER connector functions.	0: Does not functions.	1: Functions.	This adjusts the audio output phase with respect to the video	output: 20.8 .vs steps	The audio output phase is advaced with respect to the		<ul> <li>The audio output phase is delayed with respect to the video output.</li> </ul>	
Setting	Superimposed display	9	90	270	-127	•••	٩	127	-112		9		112	OFF	S	-	-128		. 0	ļ	127	
,,	No.	0000	000	0003	000	•	0127	0255	0000		0112		0224	0000	000		0000		0128		0255	
Item	Superimposed display	SYS SC	COAR.		SYS SC	FINE			SYSH					ENCODER	SEL		AV PHASE					
	No.	8			10				02					83			9	:				

The underline on the setting item denotes the initial setting.

## **USER** menu

<BASIC>

No. Superim displ 000 P-ROLL TIME	Superimposed display display TIME	No	Superimposed display 0S : 5S 5S	Description  This sets the preroil time which can be set from 0 to 15 seconds in 1-second increments.  Alottes  Alottes
	-:	0000	00   	This sets the preroil time which can be set from 0 to 15 seconds in 1-second increments.  In the case of AJ-DG40, the unit will not operate if the preroil time is set to 0 seconds when the unit is set to automatic
IIWE		0000	<u>5</u>	in rescond increments.  -Notes  -Notes  in the case of AJ-D640, the unit will not operate if the preroil time is set to 0 seconds when the unit is set to automatic
		3	3 <u>5</u>	In the case of AJ-D640, the unit will not operate if the preroll time is set to 0 seconds when the unit is set to automatic
			150	time is set to 0 seconds when the unit is set to automatic
		0015	3	editing (PREVIEW, AUTO EDIT COMMAND) from an
				external controller.
001 CHARA	A	0000	0 .	This sets the position of the characters on the horizontal
H-POS	•			plane for the time code and other super displays output to the
		0000	9	VIDEO OUT 3 connector.
			ļ	<note></note>
		0010	. 2	1. When setting this item, the DISPLAY SEL status is output to
		3	3	VIDEO 3 even if SUPER OFF has been set. However, when
				the menu is exited, operation complies with the SUPER
				OFF/ON setting.
				Also, CHARA TYPE is output to VIDEO 3 according to the
				status set in the menu.
				2. When the DISPLAY SEL setting causes characters to
-				extend beyond the edges of the screen, the setting value is
				changed so that the characters are automatically displayed
	_			in a position on the screen.

# Setup (setting) menus

USER menu <BASIC> (continued)

		the the to to to see is yed	ag ge	to out		olay .m.	t to
	Description	This sets the position of the characters on the vertical plane for the time code and other super displays output to the VIDEO QUT3 connector.  • When setting this item, the DISPLAY SEL status is output to VIDEO3 event if SUPER OPF has been set. However, when the menu is settled, operation compiles with the SUPER OFF/ON setting.  Also, CHARA TYPE is output to VIDEO3 according to the status set this menu.  2. When the DISPLAY SEL setting causes characters to extend beyond the edges of the screen, the setting value is character to the status set that the Characters are automatically displayed in a position on the screen.	This selects what information is to be provided by the time code and other super displays output to the VIDEO 3 connector.  1: Time and status.  2: Time, status and mode.  4Notes  The mode display is DVCPRO mode display during DVCPRO format and DV mode display during DV drimat.	This selects the buttons which can be operated on the front panel when the REMOTE/LOCAL switch has been set to REMOTE.  Or. No buttons can be operated.  I: Only the STOP and EJECT buttons can be operated.  2. All buttons can be operated.	This selects the 12 or 24 hour display for the CTL counter. 0: 12 hour display 1: 24 hour display	This selects whether the time code and other super display which are output to the VIDEO OUT 3 connector is to shown.  1: Shown.  1: Shown.	This selects the display type for the super display output to the VIDEO QUIT 3 connector as well as for displays such as the vetting menu, etc.  6. While characters against a black background.  1. While characters against a black border.
Setting	Superimposed display	S S	TIME T&STA T&S&M	DIS ST&EJ ENA	±12h 24h	OFF	WHITE W/OUT
0	No.	0000	00001	0000 0001 0002	0000	0000	0000
Item	Superimposed display	V-POS	DISPLAY SEL	LOCAL	TAPE TIMER	SUPER	СНАВА ТҮРЕ
	No.	005	003	004	900	900	200

The underline on the setting item denotes the initial setting.

USER menu «OPERATION»

	item	٠,	Setting	
<u>چ</u>	Superimposed display	No.	Superimposed display	Description
5	101 SHTL MAX	0000	×16	X 16 This sets the maximum speed for shuttle operations.
		000		0: 16× normal speed
		0005	09×	1: 32× normal speed
				2: 60× normal speed
				<note></note>
				During DV format, the maximum speed is 32× normal speed
				even when 60 × is selected.

The underline on the setting item denotes the initial setting.

USER menu «OPERATION» (continued)

L	Item		Setting	
ě	Superimposed display	No.	Superimposed display	Description
102	FF. REW MAX	0000 0001 0002	×32 ×60 ×100	This sets the maximum speed for FF and REW operations. 0. 32× normal speed 1. 60× normal speed 2. 100× normal speed 2. 100× normal speed During DV format, the maximum speed is 32× normal speed regardless of this setting.
103	AUDIO MUTE	0000	NO OFF	This sets the status until the audio signal is output when noderation switches from the stop or search modes to the play mode.  0. The time until the audio is output is shortened.  1. The audio is output after the status stabilizes.  4Nen set to 0 (OFF), the sound in the initially output part is incomplete. Therefore, this setting is not recommended for broadcasts.
<del>2</del> 01	REF ALARM	0000	OFF	This selects whether to warn the operator when the RE-VIDES gigan has not been connected.  0. Warning is not given.  1: Warning is given by the flashing STOP lamp.
901	PLAY DELAY	0000	15	This set the play delay time in frame increments.
107	CAP. LOCK	0000 0001 0002	2F 4F 8F	This selects the capstan lock mode. 0. 2F mode 1: 4F mode 2: 8F mode
108	SEL.	0000	DVGPRO DV	This selects the format which applies when the general purpose cassette is used. After selection, this status becomes effective only when the cassette is inserted after ejection.  1. DV mode Anotes
50	EJECT EE SEL	0000	BLACK	This selects whether EE mode or BLACK is to be used during EJECY status.  0. EE mode  1: Video blackens, audio mutes.
110	F/R EE SEL	0000	TAPE	This selects whether EE mode or playback mode is to be add during FF/REW operations.  0. EE mode  1: Playback mode
Ξ	STOP EE	0000	TAPE	This selects whether EE mode or playback mode is to be used during stop mode.  0. EE mode 1: Playback mode 4Notes 4Notes When TAPE is selection. When TAPE is selection, however, the video becomes crev.
] 				

The underline on the setting tem denotes the initial setting.  $-E\text{-}30\ -$ 

# Setup (setting) menus

USER menu <INTERFACE>

	Item	0,	Setting	
No.	Superimposed display	No.	Superimposed display	Description
201	201 9P SEL	0000	H S	This selects whether the 9P connector functions when the REMOTE/LOCAL switch has been set to REMOTE.
			5	0: Do not function 1: Function
202	202 ID SEL	000	OTHER	This selects the ID information which is returned to the
		3		0: 20 25H 1: DVCPRO's, own ID is returned (F0 33H).

The underline on the setting item denotes the initial setting.

USER menu <EDIT>

No. Supering displays 300 VAR RANGE	Superimposed		Cunorimpoond	Description
		NO.	display	Tonding of
	3E	0000	- 0.43 - 1 - 4 - +4	This sets the VAR speed range.  1. The tape is played in slow motion at a speed ranging from — 0.43× to +1× normal speed.  1. The tape is played in the 24-1× normal speed range.  Alotta- Alo
303 STD/ NON-STD	STD	0000 0001 0002	STD STD N-STD	This selects STD or NON-STD in accordance with the composite input signal.  O: Standard/non-standard signals are automatically identified comprocessed.  Standard signals are processed. (Forced STD)  C: Non-standard signals are processed. (Forced NON-STD)
304 SERVO	Q/	0000	EXT	This selects the video signal processing.  (). Servo is synchronized with the input signal during recording and editing, or with the REF signal during playback.  1. Servo is synchronized at all times with the REF signal.

# USER menu <EDIT> (confinued)

	Item		Setting	
No.	Superimposed display	No.	Superimposed display	Description
305*	EDIT RPLCE1	0000 0001 0002 0003	N-DEF CH2 CH2 CH1+2	This sets the channel assignments for the controller's analog audio preset when editing the digital audio of the VTR using a controller which does not have a digital audio edit preset control function.  This selects the channel concerned when the VTR CH1 edit preset is set in compliance with the ON or OFF presetting for the nalog audio signals desirated by the controller.  O. Not set.  C. Compliance with analog CH1 edit preset.  2. Compliance with enther analog CH1 of CH2 edit preset.  3. Compliance with either analog CH1 of CH2 edit preset.
306	EDIT RPLGE2	0000 0001 0002 0003	N-DEF CH1 CH1+2	This sels the channel assignments for the controller's analog audio preset when editing the digital audio of the VTR using a controller which does not have a digital audio edit preset formed fundion. This selects the channel concerned when the VTR CH2 edit preset is set in compliance with the ON or OFF presetting for the analog audio signals designated by the controller.  On Not set.  Compliance with analog CH2 edit preset.  Compliance with analog CH2 edit preset.
307	EDIT RPLGEC	0000 0001 0002 0003	N-DEF CH1 CH2 CH1+2	This sets the channel assignments for the controller's analog controller which does not have a digital audio of the VTR using a controller which does not have a digital audio edit preset controller which does not have a digital audio edit preset controller which accorded to the desired or or controller. This selects the rebarnel concerned when the VTR CUE edit preset is set in compliance with rate ON or OFF presetting for the analog audio signals designated by the editor or controller.  On Not set.  Compliance with analog CH1 edit preset.  Compliance with analog CH2 edit preset.
309•	AUD EDIT	0000	CUT	This selects the connection method for the digital audio edit Or On processing  1. V Fade processing
310.	AUD EDIT OUT	0000	CUT	This selects the connection method for the digital audio edit Out point.  0: Out processing: Vede processing.
313	AFTER CUE-UP	0000	STOP	This selects the mode after cue-up operation is complete. 0: STOP mode 1: SHTL STILL mode

The underline on the setting item denotes the initial setting.

\* The Setup menu can only be displayed for the model AJ-D650.

# USER menu <TAPE PROTECT>

	Item		Setting	
No.	Superimposed display	No.	Superimposed display	Description
400	STILL	0000	0.5s	This selects the time to be taken until the unit goes into the tape
	TIMER	0001 0002	5s 10s	protection mode when it is left standing in the stop mode. (Unit: s = second, min = minute)
		0003	20s	<note></note>
		0002	408	With the DV format, the maximum time which can be set is
		9000	50s	selection screen, however, will operate for up to 2 minutes.
		2000	um.	
		8000	2min	
401	SRC	0000	STEP	This selects the operation during the tape protection mode
	PROTECT	1000	HALF	when the unit is left standing in the still status in No. 400
				protection mode.
		_		0: STEP FWD.
				1: HALF LOADING.
				<note></note>
				When STEP FWD is selected, the unit automatically goes into
				the HALF LOADING mode when the total time for which the
				unit is left standing in the still status reaches 30 minutes
				(DVCPRO) or 1 minute (DV).

The underline on the setting item denotes the initial setting.

«Note»
In order to protect the tape and VTR helical heads, it is recommended that the Still Timer be set for automatic tape protection mode in 30 seconds or under.

# Setup (setting) menus

# USER menu

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	Item	0,	Setting	
No.	Superimposed display	No.	Superimposed display	Description
200	VITC POS-1	0000 0002 0003 0005 0005 0006 0007 0010 0011 0011	도 열 열 일 급급 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	This sets the position where the VITC signal is to be inserted. The same line as for VITC POS-2 in 501 cannot be selected.)
501	NVITC POS-2	0000 0001 0002 0003 0004 0006 0009 0010 0011 0013	도 역 역 역 선 년 년 년 년 년 년 년 년 년 년 년 년 년 년 년 년	This sets the position where the VITC signal is to be inserted.  (The same line as for VITC POS-1 in 500 cannot be selected.)
502	VITC BLANK TOG REGEN	0000 0000 0000 0000 0002	BLANK THRU TC&UB TC UB	This selects whether to output the VITC data to the positions selected by VITC POS-1 in 500 and VITC POS-2 in 501.  1. Data is not output.  11. Data is output.  12. Data is more output.  13. Data is more output.  14. Data is more output.  15. Data is more output.  16. Data is more output.  17. Data is more output.  18. Data is each in the end when the time code generated the signal to be regenerated when the time code and user bit are regenerated.  15. Donly the time output is regenerated.  26. Donly the time output is regenerated.
504	REGEN MODE	0000	ON	This selects whether values used in the internal time code generator are preset from the front panel or remote controller or synchronized with time code values read from the fape.  1. Values are preset from the front panel or remote controller. (PRESET)  1. Values are synchronized with time code values read from the tape. (REGEN)  4Notes  4Notes  (NGG REGEN) are regenerated.
505	505   EXTTC   0000	0000	VITC	This selects the time code to be used when an external time code is to be used.  The LTC of the TIME CODE IN connector is used.  1: The video signal VITC is used.

USER menu <TIME CODE> (continued) Settin

				THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL
	Item	••	Setting	
No.	Superimposed display	No.	Superimposed display	Description
506	BINARY	0000	000	This sets the usage status of the user bit of the time code
	GP GP	000	100	generated by the TCG.
		0005	010	0: NOT SPECIFIED (character set not specified)
		0003	011	1: ISO CHARACTER (8 bits character set based on ISO646,
		0004	100	2: UNASSIGNED 1 (undefined)
		200	110	3: UNASSIGNED 2 (undefined)
		2000	Ξ	4: CIVASSIGNED 5 (undermed) 5: PAGE/LINE
				6: UNASSIGNED 4 (undefined)
				7: UNASSIGNED 5 (undefined)
507	PHASE	0000	OFF	This selects whether to control the phase correction of the
	CORR	0001	NO O	LTC generated by the TCG.
				<ol> <li>Phase correction control is not performed.</li> </ol>
				<ol> <li>Phase correction control is performed.</li> </ol>
508	TOBOT	0000	OFF	This selects whether the CF flag of the TCG is to ON.
	FLAG	000	NO	0: CF flag is OFF.
				1: CF flag is ON.
510	RUN MODE	0000	REC	This selects the time code generator run mode.
		000	FREE	<ol> <li>Generator runs only during recording.</li> </ol>
				<ol> <li>Generator runs during usual operation.</li> </ol>
				«Note»
				Even if "0" is selected, the time code generator runs during
				usual operation when "1" is selected at the setting menu
		_		NO.304 (NEGEN MODE).

The underline on the setting item denotes the initial setting.

# USER menu «VIDEO»

	Item		Setting	
No.	Superimposed display	No.	Superimposed display	Description
601	INT BB	0000	OFF	This selects whether to generate the internal black burst
	SiG	000	88	signal.
				<ol> <li>Signal is not generated.</li> </ol>
				1: Signal is generated.
602	INPUT	0000	B/W	This selects colour killer processing for the video input signals.
	CKIL	9001	AUTO	AUTO 0: The signals are forcibly processed as B/W signals.
				<ol> <li>The signals are automatically processed.</li> </ol>

# Setup (setting) menus

USER menu	QIV>	<video> (continued)</video>	(per	. *	
		Item	"	Setting	
	Š.	Superimposed display	No.	Superimposed display	Description
	සි	OUT	0000	N-VF VF	This selects whether to float the vertical sync position of the video output in order to align the video output phase with the input in the Effereordedt modes.  Signals are not feated.
	604	v-MUTE SEL	0000	N-MUTE LOW_RF	This selects whether the video output signal is to be muted in the event of a low RF or disengaged servo lock during playback.  D: No muting (picture treezes).
	809	FREEZE SEL	0000	FIELD	This selects the freeze mode for still pictures.  0. Field freeze  1: Frame freeze
					«Note» When frame freeze is selected, the frame freeze mode is established even during slow motion.
	609	IN FRM DET	0000	FORCED	This selects the conditions under which frame detection is to be performed when signals are input.  Frame detection is performed at all times.  Frame detection is prohibited only when non-standard signals are input.
	119	ЕДН	0000	OFF ON	This selects whether to superimpose EDH onto the serial doubt signals.  0. EDH is not superimposed.  1. EDH is superimposed.  1. The tern serial go valid when the optional serial interface board has been installed.
	612	WIDE	9000 0001 0001	AUTO WIDE NORMAL	This selects the operation to be conducted in response to the WIDE information.  Ouring reconding, if the Y/C input signals contain WIDE information, the WIDE information is recorded on the tape. During playback, if WIDE information is on the tape. It is
					added to the YIC output signals.  Louring recording, the WIDE information is recorded on the tape regardless of whether the YIC input signals contain the WIDE information.  During playback, the WIDE information is added to the YIC output signals regardless of whether the WIDE information.
					is on the tape. – Forced WIDE ON  Louring recording, the WIDE information is not recorded on the tape regardless of whether the YIC input signals contain the WIDE information.  During plasyback, the WIDE information is not added to the YIC output signals regardless of whether the WIDE information is on the tape. – Forced WIDE OFF
				×	Anotes. This item is effective during recording at the start of the recording and during palyabak at all times. Therefore, when its setting has been changed during recording, the MENU contents will be changed but no change will occur in the actual operation.

USER menu <AUDIO>

	Setting	No. Superimposed Description display	0000 4dB This selects the audio input (CH1) reference level switching.	0001 OdB	arve
	Settin		0000	0001	_
\ \ \	Item	Superimposed display	700 CH1 IN		
1		No.	700		_

	Description	This selects the audio input (CH1) reference level switching.	This selects the audio input (CH2) reference level switching.	This selects the audio output (CH1) reference level switching.	This selects the audio output (CH2) reference level switching.	This selects the monitor output.  In the tapes speed ange of ~0.43x (~0.5x) to ±1x normal speed, PCM AUDIO is output; at all other times, CUE is automatically output.  I: In the PLAY mode, PCM AUDIO is output; at all other times, CUE is automatically output.  I: In the PLAY mode, PCM AUDIO is output; in the tape speed range of ~0.43x (~0.5x) to ±1x normal speed, CUICX PCM AUDIO is output; at all other times, CUE is automatically output.  3. In the tape speed drange of ~0.2x to +0.2x normal speed, OUICX PCM AUDIO is output; at all other times, CUE is automatically output.  3. In the tape speed AUDIO is output; at all other times, CUE is automatically output.  4.0.2x) normal speed, PCM AUDIO is output; at all other times, CUE is automatically output.  5. The tape speed figures given above in parentheses apply when DV format tapes are used.  1. The tape speed figures given above in parentheses apply when DV format tapes are used.  2. PCM AUDIO complies with the AUDIO MONITOR SELECT.  SW setting and is set to CH1, CH2 or MIX (CH1+.CH2).  3. "CUICK PCM AUDIO" is a playback mode in which priority is given to aligning the video and audio phases during slow-motion playback. In this mode, the sound at 1 x normal speed is played back one frame at a time each time the video frame is updated.  (During normal PCM AUDIO slow-motion playback, the polytures).	This selects the input signal to be recorded on the audio CH1 track.  0. Audio input CH1 signal.  1. Audio input CH2 signal.  2. Mixed audio input CH1 and CH2 signal.	This selects the input signal to be recorded on the audio CH2 Of Audio input CH1 signal. It Audio input CH2 signal. It Audio input CH2 signal. It Audio input CH2 signal. It Audio input CH1 and CH2 signal.
Setting	Superimposed display	4dB 0dB -20dB	4dB 0dB -20dB	4dB 0dB -20dB	4dB 0dB -20dB	AUTO 2 AUTO 3 AUTO 4 AUTO 4	CH C	CH1+2
<b>o</b>	No.	0000 0001 0002 0003	0000 0000 0002 0003	0000 0001 0002	900 1000 2001	000000000000000000000000000000000000000	0000 00001 0002	0000
Item	Superimposed display	CH1 IN	CH2 IN	CH1 OUT LV	CH2 OUT	SEL SEL	REC CH1	715 REC CH2 0000 CH1 This selects it 0000 CH2 track. 0001 CH2 track. 0002 CH1+2: Audio input 0002 CH1+3: Audio input 0002 CH1+3: Audio input 0002 CH1+3: Audio input 0002 CH1+3: Audio input 00002 C
	No.	002	701	203	704	713	714	715

<AUDIO> (continued) **USER** menu

	tem	,,	Setting	
ŏ Š	Superimposed display	Š.	Superimposed display	Description
716	REC CUE	0000 0001 0002	CH1 CH2 CH1+2	This selects the input signal recorded in OUE. The signal selected by SETUP-MENU No.714 is recorded on CH: The signal selected by SETUP-MENU No.715 is recorded on CH2. 2. The signal selected by SETUP-MENU No.714 and No.715 are mixed and recorded on CH1 and CH2.
718	OUTPUT	0000	ST2 ST2 ST1+2	This selects the AUDIO CH1 and CH2 output signals during Drimant playback.  1. The CH1 track signals are output to CH1 and the CH2 track signals to CH2. (Only the sound during shooting is output.)  1. The CH5 track signals are output to CH1 and the CH4 track signals to CH2. (Only the audio dubbing sound is output.)  2. The mixed CH1 and CH3 track signals are output to CH1 and the ch4 and the mixed CH2 and CH4 track signals to CH2. (The sound during shooting and audio dubbing sound are output simultaneously.)  4 output simultaneously.)  This item setting is valid only when the tape recorded on the four channels of the DV format is played back.
719	PB FADE	0000 0001 0002	AUTO CUT FADE	This selects the processing method for the audio edit points (points (pipoint) Ury point) during playback.  0. According to the status during recording. (Setup menus No.309, 310)  11. Forced CUT  2. Forced FADE
720	EMBEDDED AUD	0000	OFF ON	This selects whether to superimpose the audio data onto the asstratiouth.  0. Data is not superimposed.  1. Data is superimposed.  4. Oata is superimposed.  This tiem is valid when the optional serial interface board has been installed.
721	LINE CH SEL	0000	AUTO	This selects the audio output (LINE OUT).  POM AUDIO or QUICK PCM AUDIO is output.  Whatever is selected by SETUP-MENU No.713 (MONI CH SEL) or is selected by SETUP-MENU No.713 (MONI CH SEL) or is selected by SETUP-MENU No.713 (MONI articised by the AUDIO or QUICK PCM AUDIO output is not affected by the AUDIO MONITOR SELECT SW, and CH1 and CH2 are output independently.
722	INT SG	0000	NO	This selects whether the internal signal is to be used for the audio input signal.  (c. The internal signal is not selected.  1: The internal signal is selected.  Abotos  The internal signal has a frequency of 1 kHz.
] i	and the second	100	Initial off actuach mo	initial extinct

# Time code/user bit

## Time code

The time code is used when the time code signal generated by the time code generator (time code signal generator) is to be recorded on the tape, its values are to be read by the time code reader (time code signal reader), and the absolute position of the tape is to be displayed in increments of hours, minutes, seconds and frames.

The time code is written in the sub-code area (data area) of the helical track. This enables insert editing to be conducted independently using the time code alone. In addition, the VTR's playback speed can be read from the stop mode to slow-motion playback up to highspeed play (approx. 100X normal speed).

The time code values are indicated using the display and superimpose functions.

Time code reader values normally appear on the superimposed display.

Values appear as shown below on the front display

Playback: Time code reader values

Time code generator values can be checked when the REC button is pressed even during REC, EE: Time code generator values playback.

## User bit

"User bit" refers to the 32-bit (8-digit) data frame among the time code signals which has been released to users. It enables operator numbers values to be recorded. The alphanumeric characters which can be used for the user bit are the figures 0 to 9 and

the letters A to F.

# Recording internal/external time codes

# I. Setting the internal time code

Place the VTR in the stop mode.

Set the CTL/TC/UB switch to TC. 2

Set the TC INT/EXT switch to INT. (Internal time code selected) က 4

FREE (RUN): The time code runs in the same way as the time regardless of the VTR's operation. The time code runs at the same time as the recording proceeds. Set the RUN MODE. (setup menu No. 510) REC (RUN):

Set the REGEN MODE. (setup menu No. 504) 2

**OFF (REGEN):** Continuity is maintained with the recorded time code before editing. (Detailed settings are also possible using the menu settings. See the Setting menu No. 503 (TCG REGEN)

ON (PRESET): Recording starts from the value set with the TC PRESET button. menu items below.

Use the TC PRESET button to set the start number of the time code or user bit. Set the TC PRESET button.

9

Align the flashing light and the digit to be set with the cursor buttons ( ((), ()). The leftmost digit flashes.

Each time the button is pressed, the number changes. The setting range is given Press the cursor button A or vito change the value.

 When using the time code and user bit in real time 00:00:00:00 - 23:59:59:24

00 00 00 00 - FF FF FF

Repeat steps 1 and 2 to change the value.

4 When the setting of the start number is completed, press the SET button. In the FREE RUN mode, the time code now starts running.

5 Proceed with the recording or editing.

# 2. Setting the external time code (TC switch → EXT)

Place the VTR in the stop mode.

2 Set the TC/CTL/UB switch to TC.

3 Set the TC INT/EXT switch to EXT. (External time code selected)

Setting menu No. 505 (EXT TC SEL) can be set as follows. 4

The LTC signal input to the TIME CODE IN connector (BNC) on the rear jack panel is recorded as the time code. Ľ

Note> The LTC signal must be synchronized with the video signal. VITC: The input video signal's VITC is recorded as the time code.

Place the unit in the stop mode. **~~** 

Reproducing the time code/user bit

2

Set the CTL/TC/UB switch to TC or UB.

TC: The time code is displayed.

UB: The user bit is displayed.

• When it is no longer possible to read the time code, it is interpolated using the

Press the PLAY button. က

Playback now commences, and the time code appears on the display. When setting menu No.006 (SUPER) is ON, the time code value is superimposed onto the video signal from the VIDEO OUT 3 connector.

· The colon between the seconds and frames changes to a period when the drop frame time code is read.

When the time code signal cannot be read, the time code is automatically interpolated by

the CTL signal. The superimposed appears as shown below.



When the time code signal cannot be read, an asterix (  $^{*}$  ) is displayed on the superimposed TV monitor.

# Superimpose screen

The control signals, time code, etc. are displayed using abbreviations. CTL = control signal TCR = TC time code reading UBR = TC user bit reading TCR \*\*: \*\*: \*\* Abbreviation

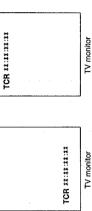
TV monitor

Characters displayed
The background of characters superimposed on the display can be changed using menu
No.007 (CHARA TYPE).

TCR \*\*: \*\*: \*\*

TV monitor

**Display position**The position of the characters superimposed on the display can be changed using setting menus No.001 (CHARA H-POS) and No.002 (CHARA V-POS).



Operation mode The VTR's operation mode can also be displayed using setting menu No.003 (DISPLAY SEL).

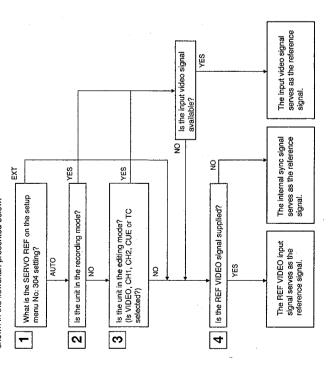
 <ul> <li>VTR operation mode</li> </ul>
TCR **:**********************************

TV monitor

- E-41 -

This unit automatically selects the input video signal selected by the INPUT switch, the reference video signal supplied from the REF VIDEO input connector or the internal sync signal as the servo reference signal.

When the signal is selected, the unit's mode and servo reference stand in the relationship shown in the flowchart presented below.



The servo reference signal is switched as shown in the tables below depending on the servo reference setting, deck mode and what input signal is available. When the mode is transferred to editing or recording/playback, the image may be disturbed and the transfer may be delayed if the references during playback and recording do not match.

Servo reference setting tables

# ■ During playback or special playback

SERVO REF	Input sign	Input signal status	Reference signal
No. 304 position	VIDEO IN signal	REF IN signal	(servo reference)
	0	0	REF IN signal
CEIT	0	×	Internal sync signal
2	×	0	REF IN signal
	×	×	Internal sync signal
	0	0	REF IN signal
FXT	Ο.	×	Internal sync signal
;	×	0	REF IN signal
	×	×	Internal sync signal

# ■ During recording or editing

SERVO REF	Input sign	Input signal status	Reference signal
No. 304 position	VIDEO IN signal	REF IN signal	(servo reference)
	0	0	VIDEO IN signal
CHI	0	×	VIDEO IN signal
2	×	0	REF IN signal
	×	×	Internal sync signal
	0	O	REF IN signal
FXT	0	×	Internal sync signal
<b>i</b>	×	0	REF IN signal
	×	×	Internal sync signal

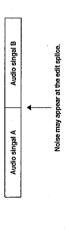
"O" denotes that the signal is supplied: "x" denotes that the signal is not supplied.

- E-44 -

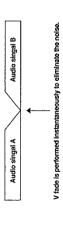
# Audio V Fade Function (AJ-D650 only)

When editing tapes, the edit point splicing selection (setting menu No. 309 and 310) information is recorded on the tape. This information is then sensed during playback, and V fade or cut processing is automatically performed for these sections. [However, only when the playback fade selection (No. 719) is AUTO.]

When the edit point splicing selection (setting menu No. 309 and 310) is CUT



When the edit point splicing selection (setting menu No. 309 and 310) is FADE



- · When the playback fade selection (No. 719) is CUT, cut processing is performed for all
- · When the playback fade selection (No. 719) is FADE, V fade processing is performed for all splices.

# Rack mounting

The unit can be mounted into a 19-inch standard rack if the optional rack-mounting adaptors (AJ-MA34HP) are used. For the installation rails, it is recommended that the rail and bracket for 18" length (model number CC3001-99-0400) of SHASSIS TRAK be used. (The complete slide rail and bracket unit is not available from Panasonic) For further details, consult with your dealer.

- Remove the screws on the left and right sides of the unit.
- Use the removed screw to attach the inner members of the silde rails. 8

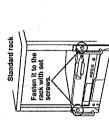


The length of the screws used is subject to restriction. If some of the mounting screws have been lost or misplaced, use screws which are less than 4" long in their place. Use four screws to secure each inner member.

- က
- Attach the outer member brackets to the rack.
  Check that the height is the same for the left and right brackets.
- Attach the AJ-MA34HP rack-mounting adaptors with included 4 screws. 4



Remove the 4 rubber legs from the bottom of the unit, and install the unit in the rack. After the unit has been installed, check that it moves smoothly along the rails. Ŋ



- · Keep the temperature inside the rack to between 5°C and 40°C by well ventilated
- · Bolt the rack securely to the floor so that it will not topple over when the VTR is drawn out.

# Video head cleaning

This unit has an auto head cleaning function which automatically reduces the dirt on the heads. However, to further increase the unit's reliability, it is recommended that its video heads be cleaned every day.

Use the cleaning fluid designated by Panasonic.

# Condensation

Condensation occurs due to the same principle involved when droplets of water form on a window pane of a heated room. It occurs when the unit or tape is moved between places where the temperature or humidity varies greatly or when, for instance:

• It is moved to a very humid place full of steam or a room immediately after it has been

heated up.

It is suddenly moved from a cold location to a hot or humid location.

When moving the unit to locations such as these, leave it standing for about 10 minutes If condensation has formed on or in the unit, the "E-20" code flashes in the counter display rather than switching on the power immediately.

Keep the power supplied and simply wait until the "E-20" code goes off. and the cassette tape is automatically ejected.

- Do not insert fingers or any objects into the video casette holder
  - Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the recorder and to the tape. Do not spray any cleaner or wax directly on the unit.
   If the unit is not going to be used for a length of time,
- protect it from dirt and dust.

  Do not leave a cassette in the recorder when not in
  - use.

     Do not block the ventilation slots of the unit.
- Use this unit horizontally and do not place anything on
- the top panel. Cassette tape can be used only for one-side, one direction recording. Two-way or two-track recordings cannot be made.
  - Cassette tape can be used for either Colour or Black & Do not attempt to disassemble the recorder. White recording.
    - There are no user serviceable parts inside.
- if any liquid spills inside the recorder, have the recorder examined for possible damage.

   Refer any needed servicing to authorized service personnel.

# Error messages

## Warning

Error No.	TV monitor display*	Descriptions	VTR operation
E-00* (Err-00)	SERVO NOT LOCKED	Error No. lights when servo disturbances continue for 3 or more seconds during playback, recording or editing.	Continued
E-01* (Err-01)	LOW RF	Error No. lights when envelope levels approx. 1/3 that of normal levels are detected for more than 1 sec. during playback, recording or editing.	Stop
E-10* (Err-10)	FAN STOP	Error No. lights when a fan motor stops operating.	Stop

\* Displays when warning information is checked by pressing the DIAG button.

# **AUTO OFF mode**

The following error number flashes on the counter display section.

Error No.	Descriptions	VTR operation
E-20	When condensation is detected, the error no display flashes, and the unit goes into EJECT mode. The drum rotates after the cassette tape is ejected to remove condensation.  When the condensation has been removed, the error no display disappears and the VTR may be used.  **Alotte**  I) The drum rotates as soon as condensation is detected when the unit is in EJECT mode.	EJECT
	2) When condensation is detected while a cassette tape is inserted, drum rotation stops, the cassette tape is ejected and the drum rotation begins again.	
E-29	The cassette does not move up even when 6 seconds have elapsed since the VTR was transferred to the eject mode.	Stop
E-31	The unloading operation is not completed within 10 seconds.	Stop
E-35	There is no response from the servo microcomputer for 1 or more seconds.	Stop
E-36	Only the servo microcomputer was reset in an instan-taneous power failure.	Stop
E-37	The servo microcomputer does not follow the instructions of the system control micorcomputer even when 10 seconds have elapsed.	Stop
E-52	After the cassette has been inserted, the tape take-up reel has not wound up the tape while the total tape amount is not detected and while the tape is traveling at or above the normal tape speed in the forward or reverse direction.	Stop
E-53	After the total tape amount has been detected, the amount of tape wound up on the take-up reel and the amount of tape supplied by the supply reel differ to an abnormal extent while the tape is traveling.	Stop
E-55	The tape has not been wound up during unloading.	Stop
E-57	The start/end processing operation is not completed even after 10 or more seconds have elapsed.	Stop
E-59	The cylinder motor speed is abnormally low.	Stop

# Error messages

	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		
Error No.	Descriptions	VTR operation	VIDEO IN
E-60	The cylinder motor speed is abnormally high.	Stop	
E-61	The capstan motor speed is abnormally low.	Stop	
E-67	The tape-up reet motor speed is abnormally high.	Stop	
E-69	An abnormal torque applied to the take-up reel motor is detected.	Stop	VIDEO OUT
E-70	An abnormal torque applied to the supply reel motor is detected or if an abnormal current flowing to the current-sensing resistor is detected.	Stop	
E-71	An abnormal tension at the supply side is detected in the capstan mode.	Stop	0
E-72	An abnormal tension at the supply side is detected in the reel mode.	Stop	ACC O
E-73	The reel motor at the take-up side is running in the reverse direction.	Stop	
E-FF	Tape start and end are detected simultaneously during loading or after loading is completed.	Stop	AUDIO OUT

# Connector signals

	_	_
•	ī	í
ĺ	:	١

BNC × 2 Active through (Option)		Loop-through, 75Ω termination switch provided	Loop-through, 75Ω termination switch provided			(Option)			
BNC×2 A	BNC×3	BNC×2 s	BNC×2 s	4-pin × 1		BNC×3	BNC×3	BNC×3	4-nin × 1
SERIAL IN (DIGITAL)	Y, Ps, Pr (ANALOG)	VIDEO IN	REF VIDEO IN	S1-VIDEO IN		SERIAL OUT (DIGITAL) BNC ×3	Y, PB, PR (ANALOG)	VIDEO OUT	S1-VIDEO IN
					VIDEO OUT				

SERIAL IN (DIGITAL)	BNC×2	(Option)	Pin No.	Signal
AUDIO IN (DIGITAL)	BNC×1	CH1/CH2 AES/EBU format (Option)	- 0	GND
AUDIO IN (ANALOG)	XLR×2	CH1, CH2	1 60	9
TIME CODE IN	BNC×1			
SERIAL OUT (DIGITAL) BNC ×3	BNC×3	(Option)		
AUDIO OUT (DIGITAL) BNC×1	BNC×1	CH1/CH2 AES/EBU format (Option)		
AUDIO OUT (ANALOG) XLR×2	XLR×2	CH1, CH2		
TIME CODE OUT	BNC×1			
MONITOR OUT	PHONO × 1	_		
HEADPHONES (front)	1/4" phone × 1	1×1		

## **AUDIO OUT**

# RS-422A REMOTE (9P)

## REMOTE

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
-	FRAME GROUND	4	RECEIVE COMMON	7	TRANSMIT B
2	TRANSMIT A	ß		8	RECEIVE A
ღ	RECEIVE B	9	TRANSMIT COMMON	6	FRAME GROUND

# Connector signals

# RS-232C REMOTE (25-pin D-SUB straight cable supported)

Pin No.	Abbreviation	Circuit	Description
-	FRAME GROUND	Protective ground	Frame ground
2	TxD	Transmitted data	Receives data from the PC.
3	BxD	Received data	Sends data to the PC.
4	RTS	Request to send	Shorted with pin 4.
5	crs	Clear to send	Shorted with pin 5.
9	DSR	Data set ready	Positive power output after communication enable status
7	GND	Signal ground	Signal ground
50	DTR	Data terminal ready	No processing

• Example of connections with controller (PC) using a 25-pin D-SUB straight cable PC end (D-SUB 25 pins)

ห้								
VIR end (U-SUB 25	FG	Δ×Γ	OX.	RTS	CTS	DSR	GND	DTR
- A	1	8	ဗ	4	2	9	7	20
Shirts)	-	<b></b>						
2005	-	~	ო	4	S	9	7	20
PC end (0-508 25	តិ	Δ×Γ	Ä	RTS	CTS	DSR	QND	DTR

# **ENCODER REMOTE (15P)**

Signal	Pin No.	Signal	Pin No.	Signal
	9	SYSTEMH	11	RET GND
UP	2	SYS.SC COARSE (2)	12	
VEL	8	-12V	13	
	6	HUE	14	14 SYS.SC FINE
,	10	VIDEO LEVEL	15	SYS.SC COARSE (1)
	SET UP C LEVEL GND +12V	ignal Pin No. 6 6 7 7 7 8 9 9 9 10	9nal Pin No. 6 SYSTE 7 SYS.SS 8 -12V 9 HUE 9 HUE	ignal         Pin No.         Signal         Pin No.           6         SYSTEM H         11           7         SYS.SC COARSE (2)         12           L         8         -12V         13           P HUE         14         14           VIDEO LEVEL         15

## SECTION 2

## SERVICE INFORMATION

## **CONTENTS**

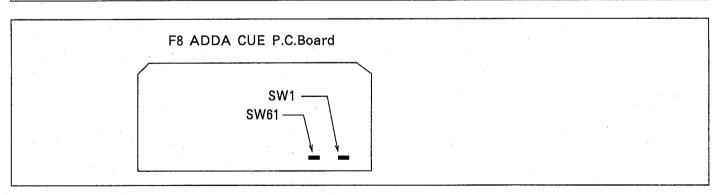
	Comparison of main features between AJ-D650, AJ-D640 and AJ-D750		
2.	Selection of Audio Input Impedance	2-	1
3.	Service menu mode ·····	2-	2
	Error rate display		
5.	Hour Meter	2-	3
6.	How to confirm the software version	2-	3

## 1. Comparison of main features between AJ-D650, AJ-D640 and AJ-D750

	AJ-D750	AJ-D650	AJ-D640
① Front Panel			
-Search Dial	0	×	×
Buttons concerning Editing	0	×	×
-Tiltable Mechanism	0	×	×
Service DIP SW	0	×	×
② Input/Output			
-S-VIDEO IN/OUT	, , <b>x</b>	0	0
-AUDIO MONITOR connector	XLR	PHONO	PHONO
*TIME CODE connectors	XLR	BNC	BNC
•CUE IN/OUT		×	×
-AES/EBU DIF		Option (AJ-YA655P)	Option (AJ-YA655P)
③ Editing Function	0	. 0	×
Simultaneous Playback	0	×	×

## 2. Selection of Audio Input Impedance

	Printed circuit board	Ref.No	Setting	Factory setting
CH1 Audio Input Impedance	F8 ADDA CUE	SW1	HIGH/600Ω	нібн
CH2 Audio Input Impedance	F8 ADDA CUE	SW61	HIGH/600Ω	нібн



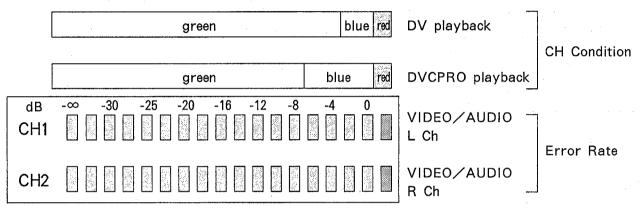
## 3. Service menu mode

Service test mode is used for adjustment and displaying error rate.

- ① Press the MENU button, then the Setup menu appears on the TV monitor.
- ② Pressing the EJECT button and the STOP button simultaneuously, press the MENU button. Then the Service menu appears at VIDEO 3 OUT.

## 4. Error rate display

The error rate is displayed on the AUDIO LEVEL METER in Service menu mode. (When enters in Service menu mode, the AUDIO LEVEL METER changes into the error display mode automatically.)



When "CH1" lamp of AUDIO LEVEL METER lights:

The upper portion of Level Meter shows the error rate of "AUDIO L ch".

The lower portion of Level Meter shows the error rate of "AUDIO R ch".

When "CH2" lamp of AUDIO LEVEL METER lights:

The upper portion of Level Meter shows the error rate of "VIDEO Lch".

The lower portion of Level Meter shows the error rate of "VIDEO R ch".

Switching between AUDIO error mode and VIDEO error mode is enabled by pressing the DIAG button in the pocket of front panel.

## 5. Hour Meter

- ① When the DIAG button is pressed, VTR information is displayed. When it is pressed again, the original display is restored.
- ② There are two types of VTR information: "HOUR METER" information and "WARNING" information. Switching between these types is enabled by pressing the cursor buttons (◄, ►).
- ③ Indicated on the "HOUR METER" screen are the power on time (OPERATION), drum rotation time (DRUM RUN), tape travel time (TAPE RUN), loading count (THREADING). The HOUR METER informations appear on the screen as indicated below.

*	H00	OPERATION	200H
	H01	DRUM RUN	50H
	H02	TAPE RUN	30H
	H03	THREADING	100T
	H11	DRUM RUN r	50H
	H12	TAPE RUN r	30H
	H13	THREADING r	100T
	END		

## ≪How to Reset≫

Note: Resettable informatins are DRUM RUN r, TAPE RUN r and THREADING r.

- ① Set the Dip SW501-1 on the F2 SYSCON P.C.Board to ON position.
- ② In EJECT mode, set the cursor "\*" to the information to be reset by pressing the cursor buttons (▲, ▼) and press "RESET" button. Then the following message appears on the screen for example.

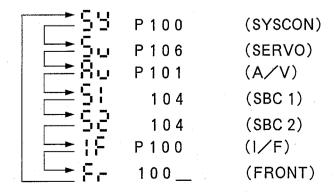
When the PLAY button is pressed, the reset function is executed. When the STOP button is pressed, the reset command is canceled.

## 6. How to confirm the software version

Press the PLAY and STOP buttons simultaneously, then the software version appears on the display of front panel.

If the PLAY and STOP buttons are pressed repeatedly, the display of software changes step by step.

Note: After power ON, the software versions except front don't appear on the display. They appear after pressing the EJECT button.



## SECTION 3

## MAINTENANCE & MECHANICAL ADJUSTMENT

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### 1. Maintenance

#### 1-1. Maintenance Parts Chart

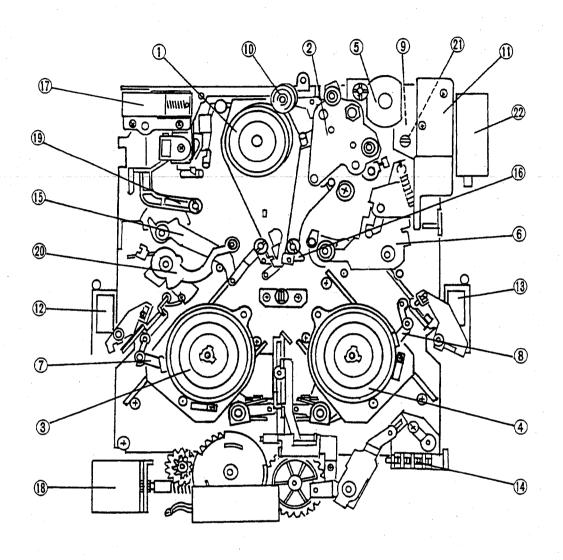
			Using Hours (hrs)				
	Name	Part Number	500	1500	3000	4500	6000
	Tape Path Cleaning		Δ	Δ	Δ	Δ	Δ
1	Cylinder Unit	VEG1337		•	•	•	0
2	A/C Head	VBR0301					0
3	S Reel(Rotor Unit)	VXP1681					0
4	T Reel(Rotor Unit)	VXP1681					0
5	Loading Motor 1 Unit	VEM0584					0
6	Pinch Arm Unit	VXL2684		●*1	●*1	●*1	0
7	S Brake Arm Unit	VXZ0424					0
8	T Brake Arm Unit	VXZ0425					0
9	Mode Switch Unit	VES0814					0
10	Cleaning Arm Unit	VXL2693		•	•	•	0
11	Pinch Solenoid	VSJ0217					0
12	S Brake Solenoid	VSJ0216					0
13	T Brake Solenoid	VSJ0216					. 🔘
14	MIC Rail Unit	VXA5577					0
15	S1 Loading Arm Unit	VXL2709			•		0
16	T1 Boat Unit	VXA5852			• .		0
17	Cleaner Solenoid	VSJ0222					0
18	Reel Drive Motor Unit	VEM0585					0
19	S5 Post Base Unit	VXA5553			•		0
20	Tension Arm Unit	VXL2734			•		0
21	Main Cam Gear	VDG1168	,				0
22	M Stopper Solenoid	VSJ0216					0
	Front Loading Unit	VXA5850				,	•
	Mech. Chassis Unit	VXY1254					•
	Fan Motor	VRF0190					•

**Note:** Using Hours are based on the head rotation hours.

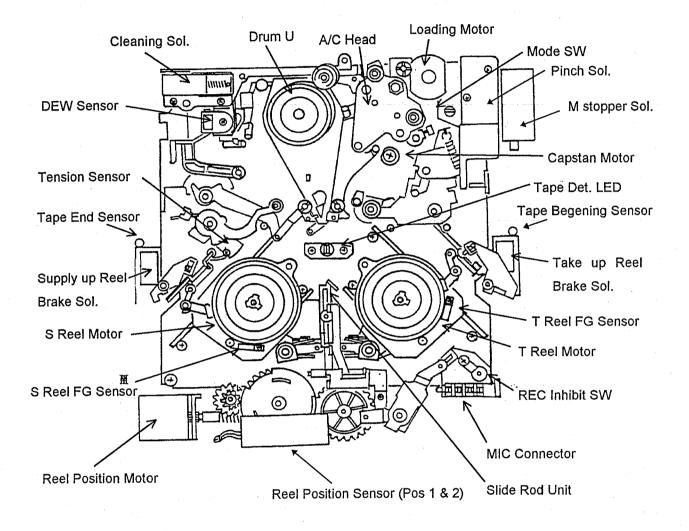
Using hours are recommendation. It may depend on temperature, humidity or dusty.

Using hours are listed as the reference of maintenance. They do not mean guarantee hours.

- •: This mark means replacement is necessary.
- ©:These parts included in Mech. Chassis Unit. Replacing Mech. Chassis Unit is recommended.
- \*1. The lubrication is necessary when replacing the Pinch Arm Unit.
- △:This mark means cleaning is necessary. Detail cleaning procedures are written in section 4.

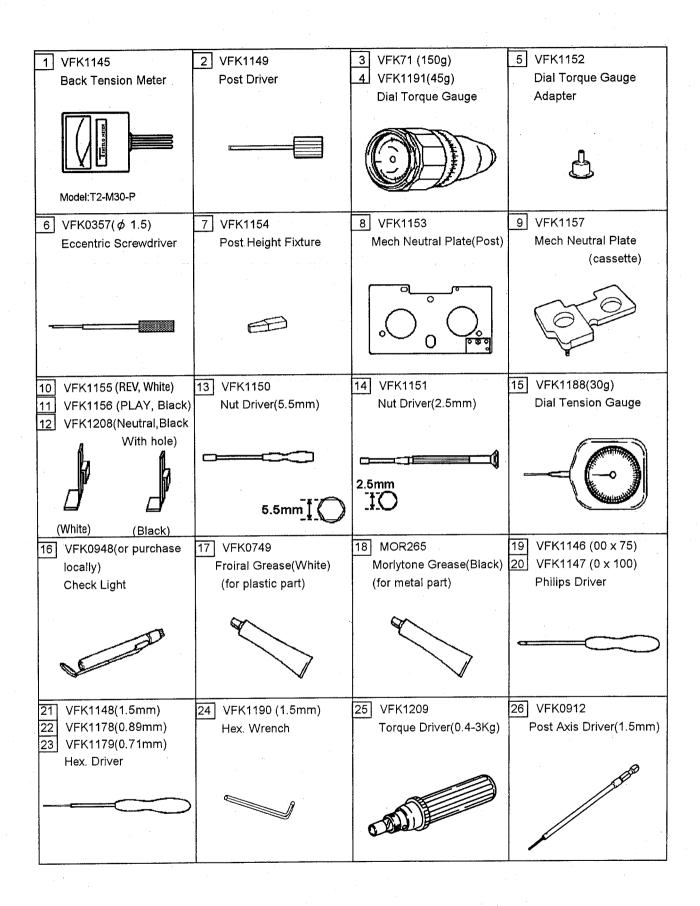


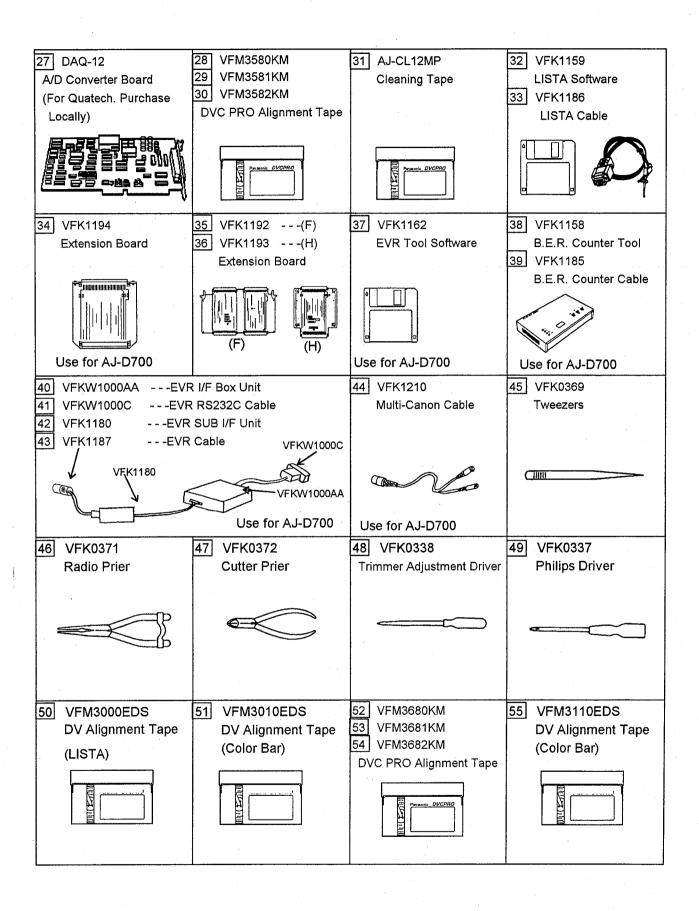
### 1-2. Sensor Layout



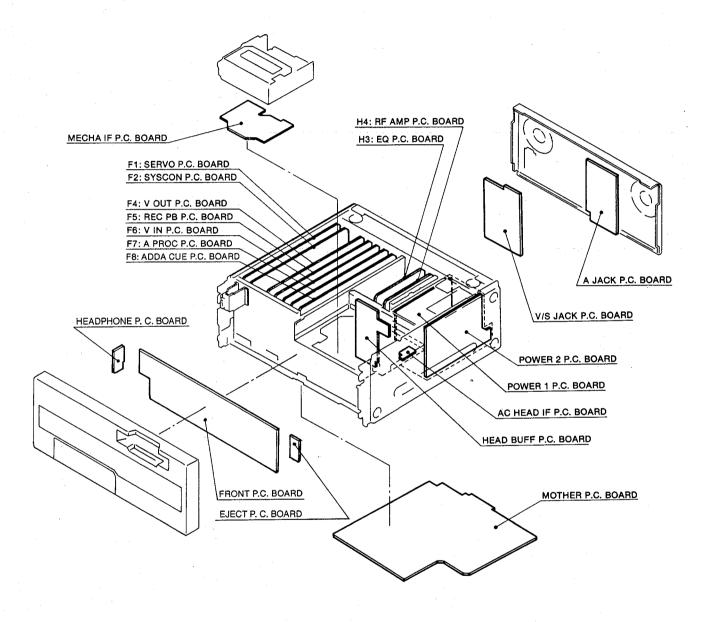
### $\mathbf{1} - \mathbf{3}$ . Servicing Fixtures & Tools

Fig	ITEM	PART No.	JIG & EQUIPMENT	NTSC	PAL	Remark
	Jig Tool	VFK1145	Back Tension Meter (T2-M30-P)	yes	yes	
3		VFK1149	Post Driver	yes	yes	
		VFK71	Dial Torque Gauge (150g)	yes	yes	
4		VFK1191	Dial Torque Gauge (45g)	yes	yes	1.
5	·	VFK1152	Dial Torque Gauge Adaptor	yes	yes	
6		VFK0357	Eccentric Screwdriver (1.5)	yes	yes	
7		VFK1154	Post Height Fixture	yes	yes	
8		VFK1153	Mech. Neutral Plate (Post)	yes	yes	
9		VFK1157	Mech. Neutral Plate (Cassette)	yes	yes	
10	1	VFK1155	Neutral Position Tool (Gold)	yes	yes	
11	1	VFK1156	Neutral Position Tool (Black)	yes	yes	
12		VFK1208	Neutral Position Tool (Black With Hole)	yes	yes	
13		VFK1150	Nut Driver (5.5mm)	yes	yes	
14		VFK1151	Nut Driver (2.5mm)	yes	yes	
15		VFK1188	Dial Tension Gauge (30g)	yes	yes	
16		VFK0948	Check Light	yes	yes	
<del>17</del>		VFK0749	Froiral Grease (for plastic)	yes	yes	
18	·	MOR265	Morlytone Grease (for metal)	yes	yes	
19		VFK1146	Phillips Driver (Fine)(00–75)	yes	yes	
20	1	VFK1147	Phillips Driver (Fine)(0–100)	yes	yes	
21		VFK1148	Hex. Driver (1.5)	yes	yes	
22		VFK1178	Hex. Driver (0.89)	yes	yes	
23		VFK1179	Hex. Driver (0.71)	yes	yes	
24		VFK1190	Hex. Wrench	yes	yes	
25	1	VFK1209	Torque Driver (0.4–3Kg)	yes	yes	
26		VFK0912	Post Axis Driver (1.5mm)	yes	yes	
27		DAQ-12	A/D Board	yes	yes	Purchase locally
28	-		Alignment Tape (No. 1)	yes	no	1 aronase room
29			Alignment Tape (No. 2)	yes	no	
30			Alignment Tape (No. 3)	yes	no	
31		AJ-CL12MP	Cleaning Tape	yes	yes	SALES
32		VFK1159	LISTA Software	yes	yes	OALLO
33	-	VFK1186	LISTA CABLE	yes	yes	
34	1	VFK1194	EXTENSION BOARD	no	no	for AJ-D700
35	4	VFK1192	F EXTENSION BOARD	yes	yes	101710 2700
36		VFK1193	H EXTENSION BOARD	yes	yes	
<del>30</del>	-	VFK1162	EVR Tool Software	no	no	for AJ-D700
38	-	VFK1158	B.E.R. Counter Tool	no	no	for AJ-D700
39		VFK1185	B.E.R. Counter Cable	no	no	for AJ–D700
40			EVR I/F Box Unit	no	no	for AJ-D700
40 41	1		EVR RS232C Cable	no	no	for AJ-D700
<del>41</del> 42	-	VFK1180	EVR SUB I/F Unit	no	no	for AJ-D700
<u>42</u> 43		VFK1187	EVR Cable	no	no	for AJ-D700
43 44		VFK1107 VFK1210	Multi-Canon Cable	no	no	for AJ-D700
	-	VFK0369	Tweezers			101 AJ-D7 00
45				yes	yes	
46		VFK0371	Radio Prier Cutter Prier	yes	yes	
47	1	VFK0372		yes	yes	
48		VFK0338	Trimmer Adjustment Driver	yes	yes	
49		VFK0337	Phillips Driver	yes	yes	
50			Alignment Tape (DV LISTA)	yes	yes	
51	-		Alignment Tape (DV Color Bar)	yes	no	for DA!
52			Alignment Tape (No. 1)	no .	yes	for PAL
53			Alignment Tape (No. 2)	no	yes	for PAL
54			Alignment Tape (No. 3)	no	yes	for PAL
55	j	VFM3110EDS	Alignment Tape (DV Color Bar)	no	yes	for PAL





### 1-4 Boards Location



### 1-5. Alignment Tapes

### **DVCPRO Alignment Tape**

for NTSC

#### VFM3580KM (NTSC)

Time	Vid	eo	РСМ		CUE	
(min)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar	Composite				
	SMPTE(75%)	Video Level				·
		Confirmation		·	1kHz 0VU	CUE Level
7:00	Color Bar	Component				Confirmation
·	Full Field(75%)	Video Level	1kHz -20dB	Audio Level		
		Confirmation	<u>.</u>	Confirmation		
14:00	H Sweep	Frequency			6kHz 0VU	A/C Head
		Response				Azimuth
18:00	Bowtie(500k)	Y/C Timing				
22:00	Pulse&Bar	Y/C Timing			1kHz	Frequency
26:00	Area Markers				300Hz~6kHz	Response
30:00						

### VFM3581KM (NTSC)

Time(min)	Signal
0:00~20:00	ITI Pattern

### VFM3582KM (NTSC)

Time(min)	Signal
0:00~10:00	X Value

for PAL

### VFM3680KM (PAL)

Time	Vid	eo	PCM CUE		E	
(min)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar	Video Level			1kHz	CUE Level
	100%	Confirmation			Reference level	Confirmation
10:00	H Sweep	Frequency	1kHz	Audio Level		
		Response	-18dBu	Confirmation		
14:00	Area Markers				6kHz	A/C Head
					Reference level	Azimuth
18:00	Bowtie(500k)	Y/C Timing			٠.	·
22:00	Pulse & Bar	Y/C Timing			1kHz	Frequency
	ı				300Hz~6kHz	Response
26:00	Multi Pulse	Y/C Timing				
30:00	·					

VFM3681KM (PAL)

Time (min)	Signal
0:00 ~ 20:00	ITI Pattern

VFM3682KM (PAL)

_	VI INCOMINI (I AL)					
	Time (min)	Signal				
Γ	0:00 ~ 10:00	X Value				

## **Recommended Test And Service Equipment**

### NTSC

Part No.	Name	Remark
TSG130A(OP.04)	Analog Component Signal Generator	TEKTRONIX
	Oscilloscope	Frequency Band Width more than 100MHz
1760(OP.SC) or 1780R	SCH Meter	TEKTRONIX
520A	Vector Scope	TEKTRONIX
	Digital Volt Meter	
	Frequency Counter	
	VTVM	Frequency Band Width 4Hz-500KHz
HP8591A	Spectrum Analyzer	Hewlett-Packard
	Audio Analyzer	

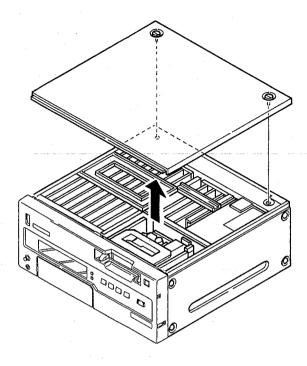
### PAL

Part No.	Name	Remark
TSG131A(OP.04)	Analog Component Signal Generator	TEKTRONIX
	Oscilloscope	Frequency Band Width more than 100MHz
1751(OP.SC) or 1781R	SCH Meter	TEKTRONIX
	Digital Volt Meter	
	Frequency Counter	
	VTVM	Frequency Band Width 4Hz-500KHz
HP8591A	Spectrum Analyzer	Hewlett-Packard
	Audio Analyzer	

### 2. Disassembly Method

#### 2-1. Removal of Top Panel

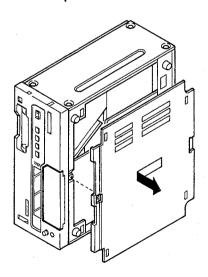
Loosen the two screws on the top panel.



#### 2-2. Removal of Bottom Panel

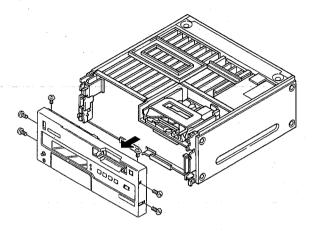
Loosen one screw.

Move the bottom panel to the front direction and remove the bottom panel.



#### 2-3. Removal of Front Panel

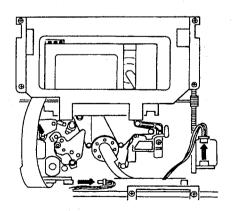
- 1. Remove the 4 screws at left and right.
- Remove the 2 screws with Front Panel on the VTR top side.
- 3. Then draw it and remove the connector and remove the Front Panel.



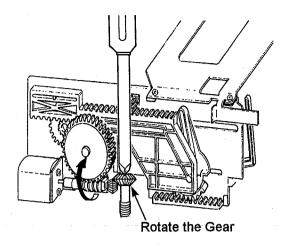
Note: After installation of Front Panel, confirm that the Blinder Panel is moved up and down smoothly by hand. If not, the Blinder Panel is caught by Blinder Panel Opener.

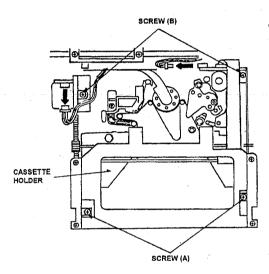
#### 2-4. Removal of Front Loading Unit

 Disconnect 2 connectors at Front Loading motor part and the mechanism interconnection board.

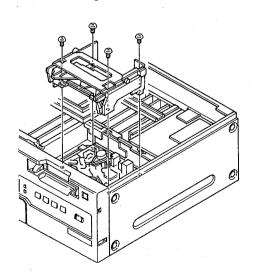


 Rotate the red plastic screw in front of the worm gear of the cassette down motor counterclockwise by a Philips-head screwdriver pushing the screw to move the Cassette Holder unit the 2 screws (A) can be removal position.



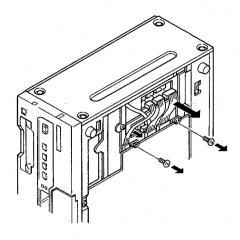


Unscrew the 4 screws (A) and (B), then remove the Front Loading Unit.

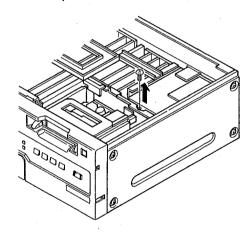


### 2-5. Removal of Power Supply unit

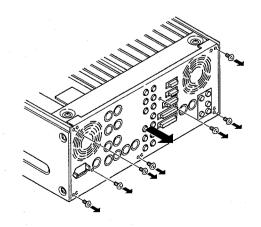
- Remove 4 connectors with the Power Supply unit on the VTR bottom side.
- Remove 2 screws with the Power Supply unit on the VTR bottom side.



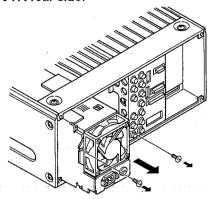
Remove 1 screw with the Power Supply unit on the VTR top side.



4. Remove the Rear Jack by removing 7 screws.

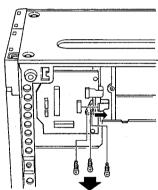


Remove 2 screws with the Power Supply unit on the VTR rear side.

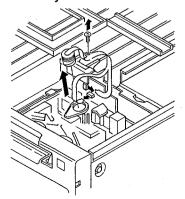


### 2-6. Removal of Cylinder Unit

 Disconnect the P33 which is connected to the mech. interface on the VTR bottom. Then remove the 3 screws which have spring from the cylinder unit.

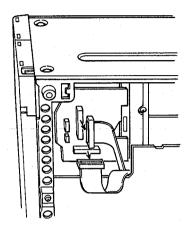


- Remove the P5003 and P5002 which are connected to Head Buffer board at VTR top, and remove the screw which is attached with the flexible board connector, then remove the cylinder unit without touching any mechanism parts.
  - Assemble procedures are reverse of the disassembly method.

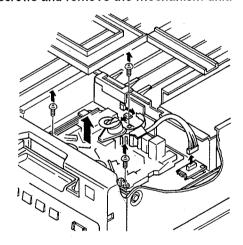


#### 2-7. Removal of Mechanism Unit

- 1. Remove the front loading unit.
- Remove the connector P1 and P2 which are connected to mech. interface at VTR bottom.

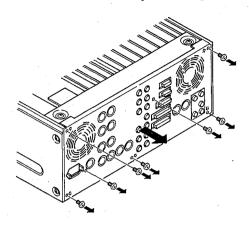


 Remove the A/C Head cable from the intermediate point, and remove the P5003 and P5002 which are connected between the cylinder unit and Head Buffer board. Then remove the 3 screws and remove the mechanism unit.

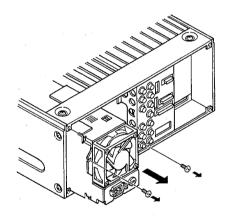


### 2-8. Removal of Fun Motor Unit

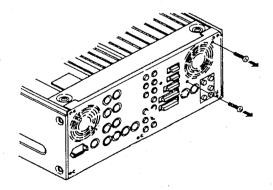
1. Remove the Rear Jack by removing 7 screws.



 Unscrew the screws and disconnect the connector P14 on the Power 2 P.C.B., then remove the Fan Motor Unit.



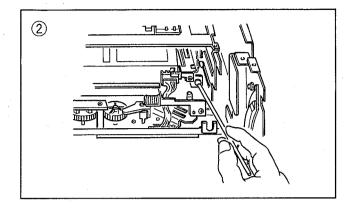
 Unscrew the screws and disconnect the connector P032 on the Mother P.C.B., then remove the Fan Motor Unit.

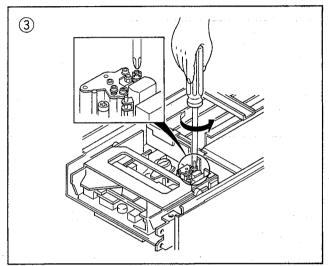


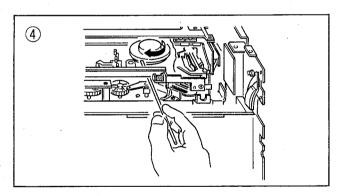
### 3. Manual Tape Eject

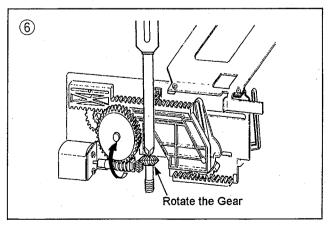
When a tape cannot be ejected, because of Power failure or mechanical tape damage, remove the tape manually.

- Turns power off and remove the top panel and front panel.
- Release the T Reel brake by pressing the iron core of the T Reel Brake Solenoid.
  - This is done by a thin stick from the VTR front.
- Rotate the red plastic screw by a Phillips-head screwdriver counterclockwise pushing the screw.
   It needs to rotate about 30 times rotation until starting to move.
- When the post is unloaded, the tape loosens, so take-up reel must be wound the tape to protect tape loosen.
  - The tape wind method is; inserting a wood stick(non magnetized) between the cassette and mechanism chassis from the front and rotate the T Reel to tape wind direction.
- Repeat item 3 and 4 until the tape in wound completely inside of the cassette.
- 6. When the tape is completely inside of the cassette, rotate the red screw in front of the worm gear of the cassette down motor clockwise by a Phillips-head screwdriver pusing the screw and remove the cassette. Take care so that the cassette cover does not bite the tape when the cover is closed.







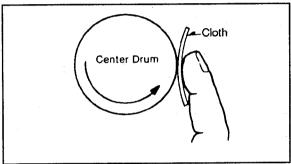


### 4. Cleaning Procedures

Make sure the power is OFF before cleaning. Use ethanol(more than 99% purity) as cleaning liquid.

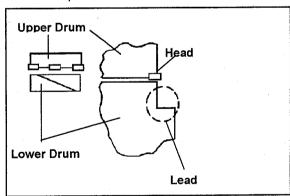
### 4-1. Cleaning of Head Chips :(Daily)

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.



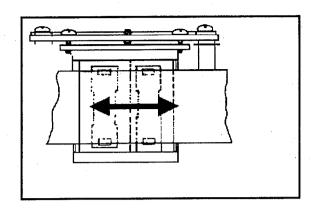
### 4-2. Cleaning of Drum Lead :(Weekly)

Be careful not to touch a head chip. Clean the drum lead with a pick.



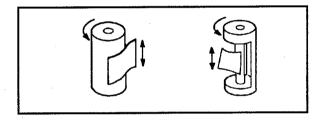
#### 4-3. Cleaning of A/C Head :(Weekly)

Wipe the A/C head with a cloth soaked by cleaning liquid. Wipe again with a dry cloth.



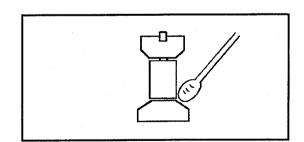
# 4-4. Cleaning of Pinch Roller and Capstan :(Weekly)

Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.



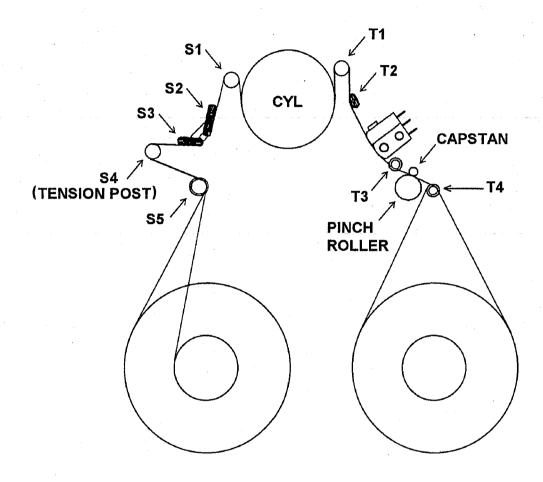
#### 4-5. Cleaning of Post :(Weekly)

Wind a cloth on a pick. Wipe each post dry with that pick. Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry again.



### 5. Mechanism Adjustment

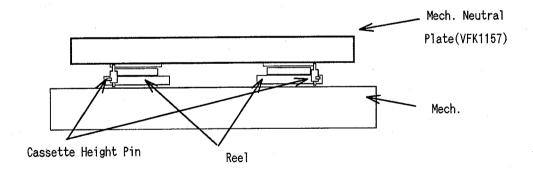
### 5-1. Name of tape transportation



5-2. Cassette Height Position Pin Adjustment

Specification	No Space between mech. neutral plate and cassette height position pin		
Mode	EJECT		
Test Point	The space between mech. neutral plate and cassette height position pin		
Equipment and tool	VFK1157 (Mech. Neutral Plate) VFK1179 (Hex Driver 0.71 mm)		
Adjustment	Hex Screw of the cassette height position pin		

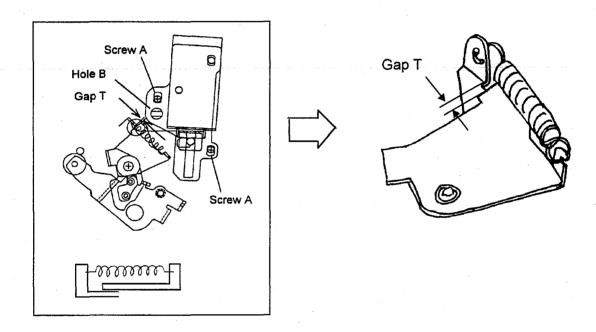
- 1. Confirm the Reel Table is located at M cassette position. If it is located at L or S cassette position, turns power on and insert M cassette and eject the M cassette.
- 2. Turns power off. Remove the front loading unit. Place the Mech. Neutral Plate (VFK1157) on the Reel Table.
- 3. There is no space between mech. neutral plate and cassette height position pin
- 4. If there is a space between them, melt the grew of the hex screw of the cassette height pin and loosen the hex screw. Then the cassette height pin is raised by its spring and touch the mech. neutral plate. Tighten the hex screw in this condition and grew the hex screw.
- 5. Adjust both S and T Reel Tables.



5-3. Pinch Solenoid Position Adjustment

Specification	T = 0.3 mm
Mode	EJECT
Test Point	Gap Т
Equipment and tool	VFK0357
  Adjustment	Hole B

- 1. Turns power off, and close the pinch roller to the capstan shaft by hand.
- 2. Press the pinch solenoid by your hand so that the pinch roller is engaged to the capstan shaft.
- 3. Loosen the screw A and adjust Hole B by VFK0357 so that the gap "T" portion is in the specification.
- 4. Tighten the screw A after adjustment.



5-4. Main Brake Torque Confirmation

Specification	Tighten Direction more than 80 gcm
:	Loosen Direction more than 15 gcm
Mode	
Test Point	Reel Table
Equipment and tool	VFK71 (150 g torque meter)
	VFK1191 (45 g torque meter)
	VFK1152 (Adapter)
Adjustment	

- 1. Remove the front loading unit.
- 2. Attach the Adapter (VKK1152) with the torque meter and attach the toque meter with the reel.

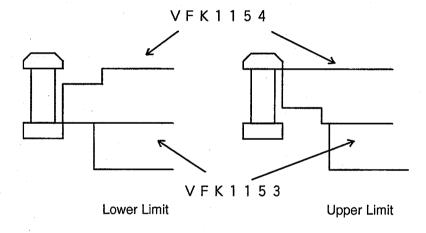
  Then rotate the torque meter and read the value when the brake is release and the reel starts rotation both CW and CCW direction for both reel tables.

5-5. Post Height Pre-Adjustment

Name	Limit	Post Driver	
S4 Post	* Lower	VFK1149	
S5 Post	* Lower	VFK1149	
T3 Post	Lower	VFK1151 (2.5 mm Nut Box )	
T4 Post	Lower	VFK1151 (2.5 mm Nut Box )	

\*: Turn S4 and S5 posts 1 round more counter clockwise from Lower Limit position.

Tool	VFK1153 (Mech. Plate), VFK1154 (Flange Tool)
	VFK1149, VFK1151
Mode	EJECT (Power OFF)



- 1. Confirm the Reel Table is located at M cassette position. If it is located at L or S cassette position, turns power on and insert M cassette and eject the M cassette.
- 2. Turns power off. Remove the front loading unit. Place the Mech. Plate (VFK1153) on the Reel Table.
- 3. Place the flange tool (VFK1154) as shown in the figure and adjust the post height.
- 4. Adjust the S4 and S5 post height by VFK1149 and adjust T3 and T4 by VFK1151.

5-6. A/C Head Height Pre Adjustment

Name of Adjustment	Screw	Adjustment	Tool
A/C Head Tilt	Α	Screw A is not loosen.	VFK1178 (0.89 mm)
A/C Head Height	В	Adjust the height so that Cue R/P head is located at lower limit of the T3 post.	VFK1150 (5.5 mm)
A/C Head Horizontal Position	C D	Adjust the hole E, and slightly tighten the screw.	VFK1148 (1.5 mm)
	E	Adjust E at center position.	VFK0357
A/C Head Azimuth	ıF.	Adjust the A/C head straight.	VFK1148 (1.5 mm)
A/C Head screws	G	Tighten the screw.	VFK1148 (1.5 mm)
	Н	Adjust the height by screw B and slightly tighten it.	VFK1190

Torque of the each screw	C, D	2.5 kg cm
	. G	1.0 kg cm

1. A/C Head Tilt Pre Adjustment

Confirm the screw A is toughed with the A/C head connection plate and it is not loosen. A/C Head Pre Horizontal Position Adjustment Loosen the screw C and D and adjust the hole E so that the position is at center and slightly tighten the screw C and D.

A/C Head Pre Height Adjustment

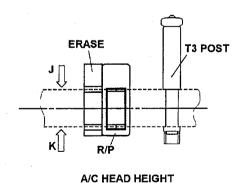
Adjust the A/C Head Height so that the Cue R/P head is located at the lower limit of the T3 post.

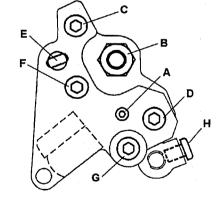
A/C Head Pre Azimuth Adjustment

Adjust the A/C Head Azimuth is parallel to the T3 post flange.

A/C head screws

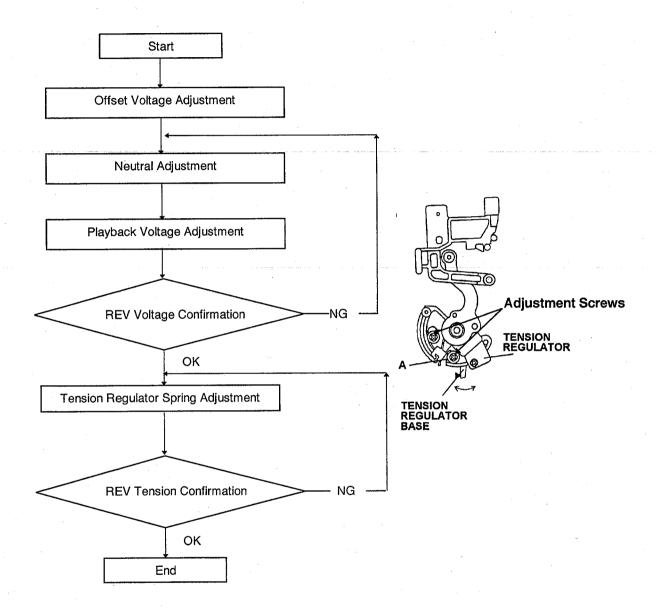
Tighten the each screw according with the upper table and confirm the each adjustment again.





### 5-7. Tension Arm Adjustment Procedures

When this adjustment is done, melt the grew of the adjustment screws.

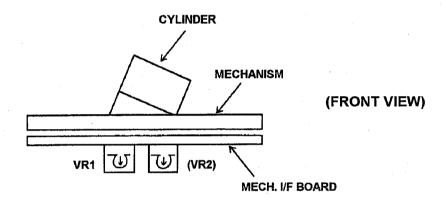


### 5-8. Tension Arm Offset Voltage Adjustment

Specification	2.5±0.05(V)
Mode	EJECT
Test Point	TP201(Servo board : F1)
Equipment	Digital Volt meter
Adjustment	VR1( Mech. I/F board: bottom of Mechanism)

Remove the Front Panel (Refer to item 2-3).

Adjust VR1 so that the DC voltage at TP201 is in the specification in EJECT mode



5-9. Tension Arm Neutral Position Adjustment

Specification	$2.5  \text{V}  \pm  0.1  \text{V}$
Mode	STOP
Test Point	TP201(Servo board : F1)
Equipment	Digital Volt meter or Oscilloscope
Adjustment	Tension Regulator Board Position
Tool	VFK1208 (Tension Arm Tool: neutral, black, with hole)

- 1. Unscrew the 4 screws and remove the Top Plate on the front loading unit.
- 2. Set the VFK1208.
- 3. Place the unit into the no tape loading mode (Refer to No tape loading procedure discribed as below).
- 4. [Connect the Digital Volt meter to TP201 on F1 board] then move the tension regulator board so that the voltage at TP201 is in the specification.
- 5. After adjustment, press the MENU button surely to escape from SERVICE-MENU before Power OFF.

#### • [No tape loading procedures are as follows.]

- ① Press the MENU button.(SET UP-MENU is displayed on the VIDEO OUT 3.)
- ② Pressing the EJECT button and the STOP button simultaneously, press the MENU button. (SERVICE-MENU is displayed.)
- ③ Press the cursor buttons( $\blacktriangle$ , $\blacktriangledown$ ) so that the cursor (\*) is at A00:SERVO ADJUST.
- 4 Press the SET button.
- ⑤ Press the cursor button (♠,▼) so that the cursor (\*) is at A02:T TORQUE.
- ⑥ Press the STOP button. During adjustment, hold the STOP button.

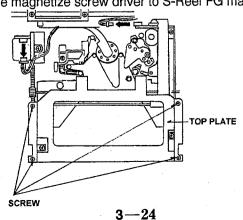
[The tension regulator board adjustment procedures are as follows.]

Loosen screw A. Move the D portion with tweezers which are not magnetized. Then tighten the screw A.

Tension Arm Tool

Attach to the surface.

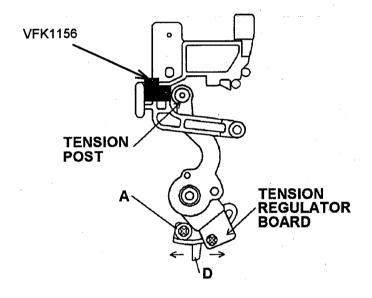
**CAUTION:** Don't touch the magnetize screw driver to S-Reel FG magnet portion, when the "D" portion is adjusting.



5-10. Tension Arm PLAY Voltage Adjustment

Specification	3.8±0.05(V)	
Mode	STOP	
Test Point	TP201(Servo board : F1)	
Equipment	Digital Volt meter	
Adjustment	VR2(Mech. I/F board : bottom of Mechanism)	
Tool	VFK1156	

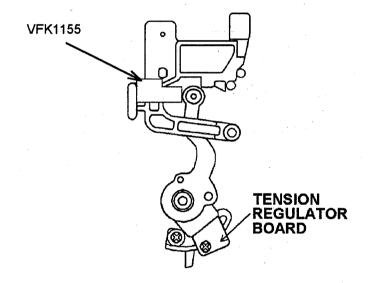
- 1. Set the VFK1156 at the specified position. (Tension Arm Tool : Play, Black color )
- 2. Place into loading mode without a tape.
- 3. Adjust VR2 so that the Specification of TP201 in STOP mode is in the specification.



5-11. Tension Arm REV Voltage Confirmation

Specification	1.2±0.3(V)
Mode	STOP
Test Point	TP201 (Servo board : F1)
Equipment	Digital Volt meter
Adjustment	
Tool	VFK1155 (Tension Arm Tool : REV, White )

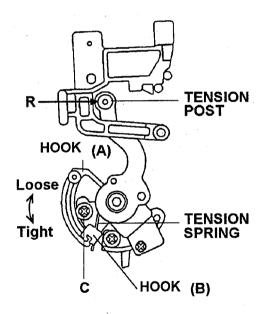
- 1. Set VFK1155 (Tension Arm Tool: REV, White )to the specified position.
- 2. Place the VTR into the no tape loading.
- 3. Confirm the voltage at TP201 is in the specification in STOP mode.
- 4. If it is out of specification, adjust "5-9. Tension Arm Neutral Position Adjustment".



5-12. Tension Arm Tension Regulator Spring Adjustment

		***************************************
Specification	11±1(gf)	
Mode	STOP	
Test Point	TP201 (Servo board : F1)	
Equipment	Digital Volt meter	
Adjustment	Tension Regulator Spring Hook (B) Position	
Tool	VFK1188(30g Dial Tension Gauge)	

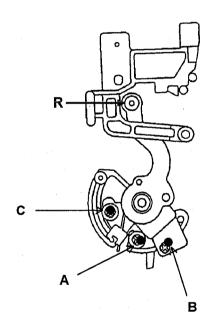
- 1. Place the VTR into no tape loading.
- 2. Press the post at the R position by Dial Tension Gauge until the voltage at TP201 is 3.8 V (Play position).
- 3. Adjust Tension Regulator Spring Hook (B) so that the tension is in the specification. Adjust the Tension Regulator Hook (B) position as follows.
- Loosen screw C.
- Adjust the position.
- Tighten screw C.



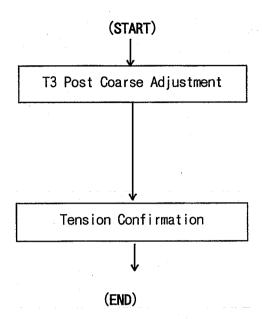
### 5-13. REV Tension Confirmation

Specification	REV Tension :18±2(g)	
Mode	STOP	
Test Point	TP201(Servo board: F1)	
Equipment	Digital Volt metér	
Adjustment		
Tool	VFK1188(30g Dial Tension Gauge)	

- 1. Place the VTR into no tape loading.
- 2. Press the post at the R position by Dial Tension Gauge until the voltage at TP201 is 1.2 V (REV position).
- 3. Confirm the tension is in the specification. If it is not, adjust Tension Regulator Adjustment again.
- 4. Grew the screw A, B and C after Tension Arm adjustment. The grew quantity at B is half of A and C.



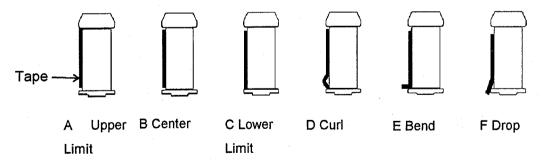
### 5-14. Tension Confirmation Procedures



5-15.T3 Post Coarse Adjustment

Specification	A, B, C shows good condition, D, E, F shows bad condition.
Mode	PLAY
Adjustment	T3 Post Height
Tool	VFK1151 ( Box Driver 2.5 mm)
Tape	Working Tape (This adjustment may damage the tape.)

Place the unit into PLAY mode and adjust T3 Post height so that the tape runs without any tape damage.

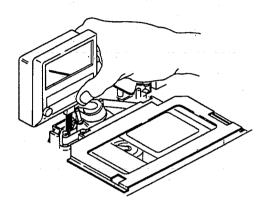


5-16. Play Mode Tension Confirmation

Specification	6±1 g PLAY
Tool	VFK1145 (Back Tension Meter)

- 1. Playback the beginning part of the 63 min Tape.
- 2. Insert the back tension meter between S3 and S4 post (Tension arm).
- 3. Confirm the tension is in the specification.

NOTE: Be careful not to give some tape damage.

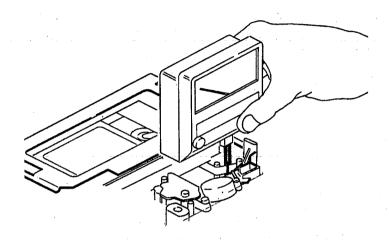


### 5-17. Reverse Tension Confirmation

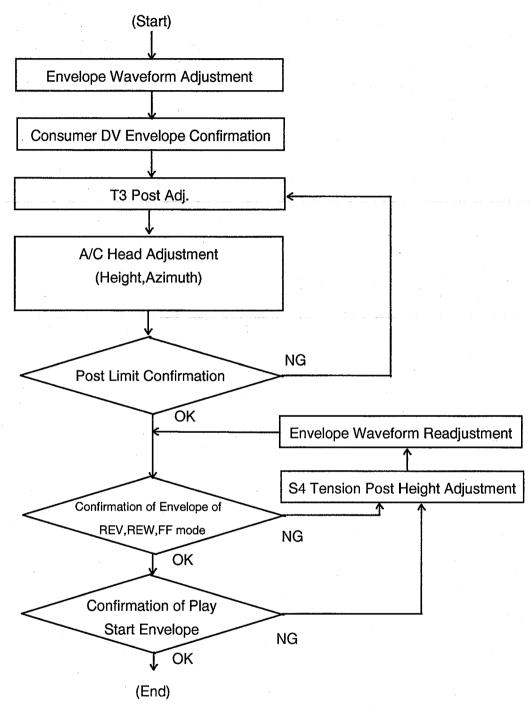
Specification	9±2g	REV(X1)		į.	
Tool	VFK1145	(Back Tension Mete	er)		

- 1. Set the 63 min Tape and place the unit into Reverse mode.
- 2. Insert the back tension meter between S5 and S4 post (Tension arm).
- 3. Confirm the tension is in the specification.

NOTE: Be careful not to give some tape damage.



### 5-18. Tape Pass Adjustment Procedures

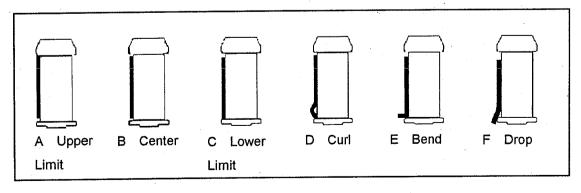


5-19. Tape Pass Adjustment (COARSE) and Tape Pass Limit Confirmation

Specification	Confirm the each post limitation is as shown in the table.			
Mode	PLAY			
Adjustment	A/C Head Screw			
	VFK1149 (Post Driver)			
	VFK1150 (Box Driver 5.5mm)			
Tool	VFK1151 (Box Driver 2.5mm)			
	VFK1178 (0.89mm) · · · Screw A			
	VFK1148 (1.5mm) · · · Screw G			
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion)			
	PAL: VFM3680KM (Alignment Tape No.1 Color Bar Portion)			

Post Name	Tape Limit (Refer the figure)			figure	)	Adjustment	
	Α	В	Ċ	D	Е	F	
S5 Post	×	0	0	×	×	×	S5 Post
S4 Tension Post	×	×	0	×	×	×	Tension Post Height
S1 Post	0	×	×	×	×	×	Envelope Adjustment
T1 Post	0	×	×	×	×	×	
A/C Head						CTL Adjustment	
T3 Post	×	×	0	×	×	×	T3 Post Height
T4 Post	×	0	0	×	×	×	T4 Post Height

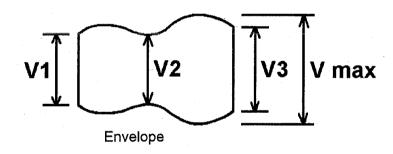
- O means acceptable.
- × means not acceptable.
- 1. Place unit into PLAY mode, and adjust the height of each post do not to occurred tape damage.
- 2. Regarding the S1 Post, T1 Post and A/C Head adjustment, refer to item "Envelope Waveform Adjustment" and "A/C Head Azimuth Adjustment".
- 3. Confirm the tape pass limit of each post as below figure.



5-20. Envelope Waveform Adjustment

Specification	V1/Vmax、V2/V max、V3/V max≧0.8		
Mode	ATF Control PLAY mode		
Test Point	TP16: R/P envelope(RF Board:H4)		
	TP1: TRIG.(RF Board:H4)		
Equipment	Oscilloscope		
Adjustment	S1, T1 Post Height		
Tool	VFK1149 (Post Driver)		
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion)		
÷	PAL: VFM3680KM (Alignment Tape No.1 Color Bar Portion)		

- 1. Playback the color bar portion of the alignment tape.
- 2. Adjust S1 and T1 post height so that the R/P envelope output is in the specification.
- 3. When the S1 and T1 posts are adjusted, first raise the post height and make small the entrance and exit side of the envelope, then down the post until envelope becomes flat.
- 4. Adjust T1 post and makes exit side of the envelope flat then adjust S1 post.
- 5. After the adjustment, unload the tape then loading the tape. Confirm the waveform style.



5-21. Consumer DV Envelope Confirmation

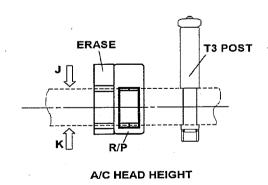
Specification	V1/Vmax、V2/V max、V3/V max≧0.8
Mode	ATF Control PLAY mode
Test Point	TP16: R/P envelope(RF Board:H4)
	TP1: TRIG.(RF Board:H4)
Equipment	Oscilloscope
Adjustment	S1, T1 Post Height
Tool	VFK1149 (Post Driver)
Tape	NTSC: VFM3010EDS (Consumer DV Color Bar)
	PAL: VFM3110EDS (Consumer DV Color Bar)

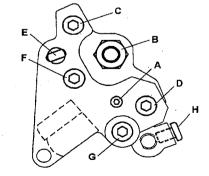
- 1. Playback the alignment tape VFM3010EDS and confirm the envelop is in the specification.
- 2. If it is not, adjust the previous item again.

### 5-22. A/C Head Adjustment method

Adjustment Item	Screw	Adjustment Method
A/C Head Tilt	A	Tighten direction Decrease CUE
Adjustment	VFK1178	Loosen direction Increase CUE
A/C Head Height	B VFK1150	Tighten direction — Output increase when tape is up (arrow k)  Loosen direction — Output increase when tape is down (arrow j)
Azimuth	F	Phase is adjusted by screw F.
	VFK1148	
A/C Head	С	Adjust X value by VFK0357 (Eccentric screwdriver) at
Horizontal Position	D	long hole. Then tighten the screw C and D to fix the
(Torque 2.5kg.cm)	VFK1209	A/C head horizontal position.
	VFK0912	
A/C Head Tilt	G	Screw G Always be tighten during adjustment.
(Torque 1kg.cm)	Same C and D	
A/C Head Fix	<b>H</b>	Screw H After height adjustment, tighten the screw
	VFK1190	H to fix the A/C head height.

- 1. Always the screw G must be tightened while each adjustments is done.
- 2. After the A/C head tilt adjustment, confirm the screw A is not loosen. (The screw A must be touch with the A/C head set plate.)
- 3. After the A/C head tilt adjustment, confirm the tape damage at T3 post.
- When A/C head height is adjusted, loosen the screw H to start, and after adjustment completion, tighten screw B.
- 5. Each adjustment must be completed with tightening the screw.
- 6. Each adjustment must be alternately adjusted or confirmed with the envelope exit side adjustment.

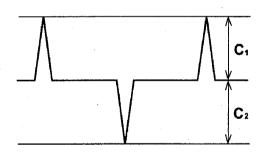




### 5-23. A/C Head Height Adjustment

Specification	CTL Output : C1、C2≧1.8(V)
Mode	PLAY
Test Point	TP30 : CTL Output (Servo board : F1)
Equipment	Oscilloscope
Adjustment	A/C Head Screw B, H
Tool	VFK1150 (Box driver), VFK1190 (Hex)
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion)
	PAL: VFM3680KM(Alignment Tape No.1 Color Bar Portion)
	* Dubbing tape is recommendable

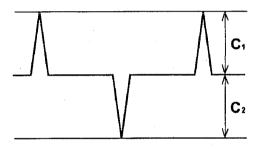
- 1. Connect the scope to TP30 on the Servo board, and adjust the A/C head height so that the CTL output level is in the specification.
- 2. To adjust the height, loosen the screw H and adjust by nut B.
- 3. When A/C head height is changed, the Azimuth is changed also, so adjust A/C head height and A/C azimuth adjustment alternately.
- 4. When the screw H is tighten, the A/C head tilt is changed, so the confirmation must be done after tightening the screw H.



## 5-24. A/C Head Azimuth Adjustment

Specification	CTL Output : C1 C2 = C1 max C2 max
Mode	PLAY
Test Point	TP30 : CTL Output (Servo board : F1)
Equipment	Oscilloscope
Adjustment	A/C Head Screw F
Tool	VFK1148 (Box driver)
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion)
	PAL: VFM3680KM(Alignment Tape No.1 Color Bar Portion)
	* Dubbing tape is recommendable

- 1. Connect the scope to TP30 on the Servo board (F1) and adjust the Screw F so that the CTL Output becomes maximum.
- 2. When the A/C Head Azimuth is changed, the A/C Head Height is changed also, so adjust A/C head height and A/C azimuth adjustment alternately.



# 5-25. Confirmation of Envelope of REV, REW, FF mode

Specification	Refer to the following figure.			
Mode	REV , REW and FF			
Test Point	P16:R/P Envelope (RF board : H4)			
Equipment	Oscilloscope			
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion)			
	PAL: VFM3680KM(Alignment Tape No.1 Color Bar Portion)			

Envelope waveform confin	rmation
Mode: REV , REW and FF	Evaluation
	OK  ·Waveform must be diamond style.  ·All The peak must be more than 90%  of the maximum level.
	V/Vmax≧0.9
	NG

- 1. Connect the scope to TP16 and confirm the envelope style is in the specification in REV, REW and FF mode.
- 2. If it is out of specification, adjust S4 Post(Tension Post) Height again.

## 5-26. Confirmation of PLAY Start Envelope

Specification	In the Play mode envelope become flat momentarily.			
	FF → PLAY			
Mode	REV and REW → PLAY			
	Loading Completion → PLAY			
Test Point	TP16: R/P Envelope (RF Board: H4)			
Equipment	Oscilloscope			
Таре	Recorded L Cassette (123min.) Tape Begin			

Envelope Confirmation	
PLAY Start	Evaluation
	<b>OK</b> (Envelope becomes flat momentarily)
	NG

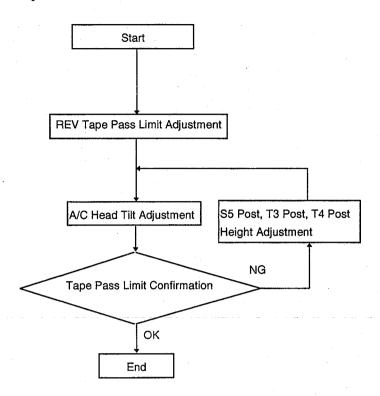
- 1. Observe the envelope by oscilloscope and confirm the envelope is in the specification in the transition from FF to PLAY, from REW to PLAY, from REV to PLAY and from Loading completion to PLAY.
- 2. If it is not adjust S4 Post Height (ITEM 5-27).
- 3. This adjustment must be done after Envelope Waveform Adjustment.

# 5-27. S4 Tension Post Height Adjustment

Specification	Envelope becomes flat momentarily at PLAY start.				
Mode	PLAY				
Adjustment	Tension Post (S4 Post)				
	S1 and T1 Post				
Equipment	Oscilloscope				
Tool	VFK1149 (Post Driver)				
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion)				
	PAL: VFM3680KM(Alignment Tape No.1 Color Bar Portion)				

- This adjustment should be done when the 5-20 "Envelope Waveform Adjustment", 5-25 "Confirmation of Envelope of REV, REW, FF mode" or 5-26 "Confirmation of Play Start Envelope" can not be achieved the specification.
- 1. Rotate the S4 tension post height 90 degrees CCW (counterclockwise).
- 2. Adjust S1 and T1 post height again. Refer to the 5-20 "Envelope Waveform Adjustment".
- 3. Confirm the Play Start envelope waveform (Item 5-26).
- 4. If it is not in the specification, repeat item 1 to 3. The maximum rotation angle is 360 degrees.
- 5. Even the height is out of specification, confirm 5-5 "Post Height Pre Adjustment".

## 5-28. Tape Limitation Confirmation Procedures



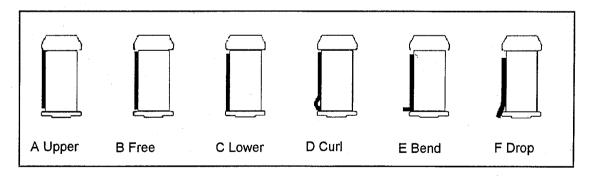
The Tape Pass Limit Confirmation must be done with MP Tape (M cassette) and ME Tape (S cassette).

5-29. REV Tape Pass Limit Adjustment

Specification	Confirm the each post limitation is as shown in the table.
Mode	REV
Tool	VFK1149(Post Driver)
	VFK1151(Box Driver 2.5mm)
	VFK1178(0.89mm)···Screw A
	VFK1148(1.5mm)···Screw G
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion)
	PAL: VFM3680KM (Alignment Tape No.1 Color Bar Portion)

Post Name	Tape Limit (Refer the figure)						Adjustment
	Α	В	С	D	E	F	
S5 Post	0	0	0	Х	Х	Х	S5 Post
S4 Tension Post	Х	0	0	Х	Х	Х	Tension Post Height
S1 Post	0	X	Х	X	Χ	Х	(Envelope Adjustment)
T1 Post	0	0	. 0	Х	Х	Х	
T3 Post	Х	Х	0	X	Х	Х	T3 Post Height
T4 Post	Х	X	0	Х	Х	Х	T4 Post Height

- O means acceptable. X means not acceptable.
- 1. Place unit into REV mode, and adjust T4 so that the Lower limit touch the tape.
- 2. Confirm the T4 post is at lower limit, then adjust T3 post is at lower limit.
- 3. Confirm the tape pass limit of each post.
- 4. These adjustment must be done after envelope waveform adjustment.

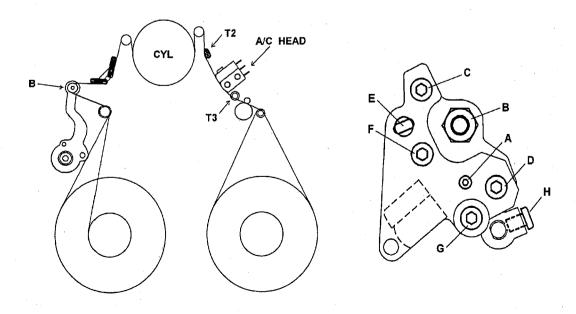


## 5-30. A/C Head Tilt Adjustment

	The state of the s				
Specification	T3 post must be lower limit in PLAY mode.				
	No tape damage and no tape curling				
Mode	PLAY				
Adjustment	A/C Head screw A, G				
Tool	VFK1178 (0.89 mm) Screw A				
	VFK1148 (1.5 mm) Screw G				
Tape	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion)				
	PAL: VFM3680KM (Alignment Tape No.1 Color Bar Portion)				

Adjustment Item Screw		Adjustment Method
A/C Head Tilt Adjustment	Α	Tighten direction Tape is up at T3 Post.
		Loosen direction Tape is down at T3 Post.
A/C Head Fix	G	Keep tightening for each adjustment.
(Torque = 1.0 kg cm)		

- 1. This adjustment must be done after "REV Tape Pass Limit Adjustment".
- 2. Place the VTR in PLAY mode, and confirm the T3 Post limit and adjust A/C head tilt is in the specification.
- 3. When complete the A/C head adjustment, final direction of screw rotation must be tighten direction.
- 4. Adjust alternately with each A/C head adjustment (Azimuth, Height).

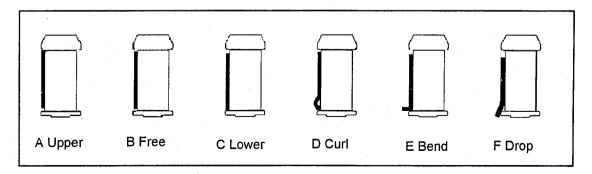


5-31, PLAY Tape Pass Limit Confirmation

upo . u.						
Specification	Confirm the each post limitation is as shown in the table.					
Mode	PLAY					
Tool	VFK1149(Post Driver)					
	VFK1151(Box Driver 2.5mm)					
	VFK1178(0.89mm)···Screw A					
	VFK1148(1.5mm)···Screw G					
Tape	M Cassette (MP Tape) Tape Begin and Tape End					
	S Cassette (ME Tape) Tape Begin and Tape End					

Post Name	Tape Limit (Refer the figure)					e)	Adjustment
	Α	В	С	D	E	F	·
S5 Post	Х	0	0	Х	Х	Х	S5 Post
S4 Tension Post	Х	Х	0	Х	х	Х	Tension Post Height
S1 Post	0	Х	Х	Х	х	Х	(Envelope Adjustment)
T1 Post	0	Х	Х	Х	х	Х	
T3 Post	Х	Х	0	Х	х	Х	T3 Post Height
							A/C Head Tilt
T4 Post	Х	0	0	Х	×	Х	T4 Post Height

- O means acceptable. X means not acceptable.
- 1. Place the unit into PLAY mode, and confirm the each post limit is in the specification as shown in the upper table.
- 2. This adjustment must be done after "Envelope Waveform Adjustment".
- 3. If it is out of specification, adjust each item again.
- 4. If A/C head tilt is out of specification adjust "A/C Head Tilt Adjustment".
- 5. Regarding T3 and T4 posts, confirm and adjust this confirmation alternately with "REV Tape Pass Limit Confirmation" and "Loading Tape Pass Limit Confirmation".
- 6. Confirm the tape pass limit for both M cassette and S cassette.

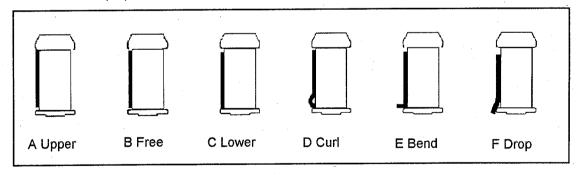


5-32. REV Tape Pass Limit Confirmation

Specification	Confirm the each post limitation is as shown in the table.			
Mode	PLAY			
Tool	VFK1149(Post Driver)			
	VFK1151(Box Driver 2.5mm)			
Tape	M Cassette (MP Tape) Tape Begin and Tape End			
	S Cassette (ME Tape) Tape Begin and Tape End			

Post Name	Tape Limit (Refer the figure)			e figure	<del>)</del>	Adjustment	
	A	В	С	D	Е	F	
S5 Post	0	0	0	Х	Х	×	S5 Post
S4 Tension Post	Х	0	0	Х	X	Х	Tension Post Height
S1 Post	0	Х	Х	Х	Х	Х	(Envelope Adjustment)
T1 Post	0	0	0	Х	Х	Х	
T3 Post	Х	X	0	Х	Х	Х	T3 Post Height
T4 Post	Х	Х	0	Х	x	X	T4 Post Height

- O means acceptable. X means not acceptable.
- 1. Place the unit into REV mode, and confirm the each post limit is in the specification as shown in the upper table.
- 2. This adjustment must be done after "Envelope Waveform Adjustment".
- 3. If it is out of specification, adjust each item again.
- 4. This adjustment should be done alternately with PLAY Limit Adjustment.
- 5. If adjust T3 post, confirm "Loading Tape Pass Limit Confirmation".
- 6. Confirm the tape pass limit for both M cassette and S cassette.

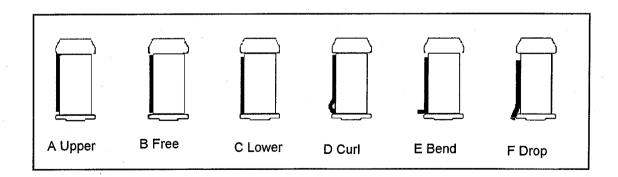


5-33. FF, REW Tape Pass Limit Confirmation

Specification	Confirm the each post limitation is as shown in the table.
Mode	FF, REW
Tool	VFK1149(Post Driver)
	VFK1151(Box Driver 2.5mm)
Tape	M Cassette (MP Tape) Tape Begin and Tape End
	S Cassette (ME Tape) Tape Begin and Tape End

Post Name	Tape Limit (Refer the figure)		e) <u> </u>	Adjustment			
	Α	В	С	D	E	F	
S5 Post	0	0	0	Х	Х	Х	S5 Post
S4 Tension Post	Х	0.	0	Х	Х	Х	Tension Post Height
S1 Post	0	·x	Х	х	X	Х	(Envelope Adjustment)
T1 Post	0	0	0	Х	Х	Х	
T3 Post	0	0	0	Х	Х	Х	T3 Post Height
T4 Post	Х	0	0	X	X	Х	T4 Post Height

- O means acceptable. X means not acceptable.
- 1. Place the unit into FF and REW mode, and confirm the each post limit is in the specification as shown in the upper table.
- 2. This adjustment must be done after "Envelope Waveform Adjustment".
- 3. If it is out of specification, adjust each item again.
- 4. This adjustment should be done alternately with PLAY Limit Adjustment.
- 5. If adjust T3 post, confirm "Loading Tape Pass Limit Confirmation".
- 6. Confirm the tape pass limit for both M cassette and S cassette.

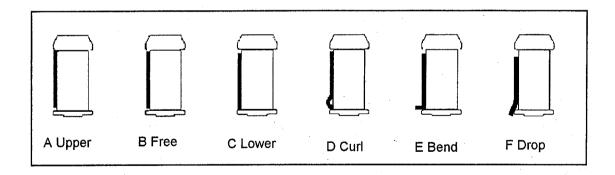


5-34. Loading Tape Pass Limit Confirmation

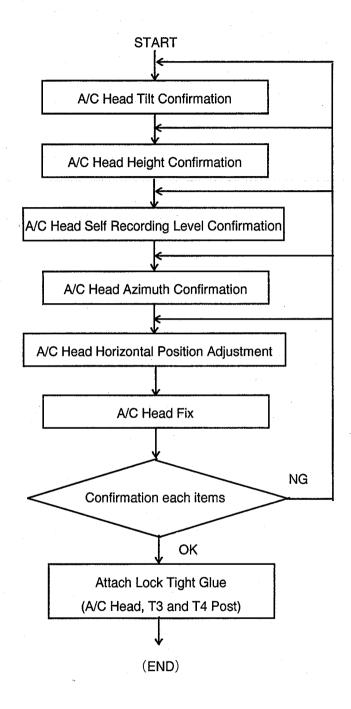
Specification	Confirm the T3 post limitation is as shown in the table.			
Mode	LOADING / UNLOADING			
Tool	VFK1151(Box Driver 2.5mm)			
Tape	M Cassette (MP Tape) Tape Begin and Tape End			
	S Cassette (ME Tape) Tape Begin and Tape End			

Post Name	Tape Limit (Refer the figure)			e figure	<del>)</del>	Adjustment	
	Α	В	С	D	Е	F	
T3 Post		0	0	X	Х	Х	T3 Post Height

- O means acceptable. X means not acceptable.
- Place unit into Loading condition, then confirm that the tape damage occurred or not at lower limit
  of T3 post and adjust the T3 post so that the post limit is within specification as shown in the upper
  table.
- 2. When confirm that the tape pass limit on the Loading condition as above item, practice alternately with "PLAY Tape Pass Limit Confirmation" and "REV Tape Pass Limit Confirmation" procedure.
- 3. If the T3 post is became too much lower limit at the timing of rising on Playback mode, down the height of T3 post a little and practice again the "PLAY Tape Pass Limit Confirmation", "REV Tape Pass Limit Confirmation" and "A/C Head Tilt Adjustment" procedure.
- 4. Confirm the tape pass limit for both M cassette and S cassette.



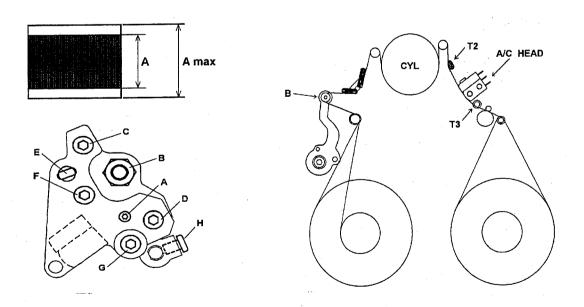
## 5-35. A/C Head Confirmation Procedures



#### 5-36. A/C Head Tilt Confirmation

Specification	CUE Output : A/Amax≧0.9
Mode	PLAY
Test Point	TP4381 : ADDA CUE board (F8)
Equipment	Oscilloscope
Adjustment	A/C head Screw A、G
Tool	VFK1178 (Hex Screw 0.89 mm) for Screw A
	VFK1148 (Hex Screw 1.5 mm) for Screw G
Таре	NTSC: VFM3580KM (Alignment Tape No.1 14 min.~22 min.)
	PAL: VFM3680KM (Alignment Tape No.1 14 min.~22 min.)

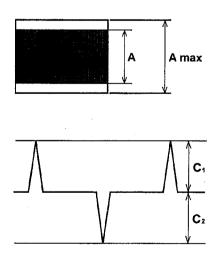
- 1. Playback the Alignment tape CUE 6 KHz part.
- Confirm the screw G and H are not loosen. Then Connect the scope to TP4381 to observe
  the CUE output. Vibrate the tension arm to B direction, and confirm the output level
  variation is in the specification.
- 3. When complete the adjustment, final screw rotate direction must be tighten direction, and confirm the Screw A is not loosen.
- 4. When adjust the screw A, loosen screw G and adjust screw A, then tighten screw G.
- 5. The A/C Head Tilt adjustment effects the T3 post limitation, so adjust item "Play limitation confirmation" again.

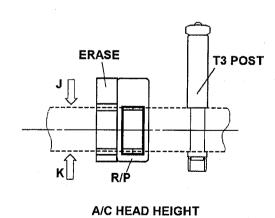


# 5-37. A/C Head Height Confirmation

Specification	CUE Output :A = A max CTL Output : C1、C2≥1.8(V)			
Mode	PLAY			
Test Point	TP4381: ADDA CUE BOARD (F8)			
	TP30 :Servo BOARD(F1)			
Equipment	Oscilloscope			
Adjustment	A/C head Screw B、H			
Tool	VFK1150 (Box Driver 5.5 mm) for Screw B			
	VFK1190 (L type Hex Screw 1.5 mm) for Screw H			
Tape	NTSC: VFM3580KM (Alignment Tape No.1 14 min.~22 min.)			
	PAL: VFM3680KM (Alignment Tape No.1 14 min.~22 min.)			

- 1. Playback the Alignment tape CUE 6 KHz part.
- 2. Connect the scope to TP4381 on ADDA CUE board and confirm the CUE output level is not increased even the tape is moved j and k arrow direction.
- 3. When A/C Head Height is changed, the A/C Head Azimuth is changed also, so adjust and confirm alternately A/C Head Azimuth and A/C Head height.
- 4. The A/C Head tilt is changed by tightening the screw H, so the confirmation of specification must be done after tightening the screw H.

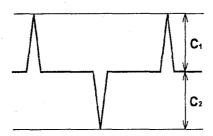




5-38. A/C Head Self Recording Level Confirmation

Specification	CTL Output Level
	PLAY : C1, C2 ≥ 1.8 V
	REV (-1 x) : C1, C2 ≥ 1.4 V
	REV (-0.2 x) : C1, C2 ≥ 1.2 V
Mode	PLAY
	REV (-1x, -0.2 x)
Test Point	TP30: CTL Output (Servo board : F1)
Equipment	Oscilloscope
Таре	Work Tape for Rec and Play

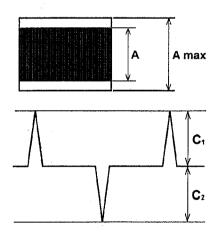
- 1. Record and Playback by a work tape.
- 2. Connect the scope to TP30 and confirm the CTL level is in the specification.
- 3. This confirmation should be done after the screws are fixed.
- 4. If it is not in the specification, adjust "A/C Head Height" again.

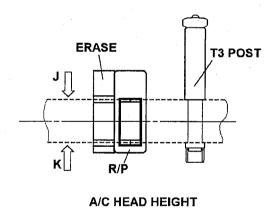


#### 5-39. A/C Head Azimuth Confirmation

Specification	CUE Output : A = Amax CTL Output : C1、C2≧1.8(V)
Mode	PLAY
Test Point	TP4381: ADDA CUE BOARD (F8) TP30 :Servo BOARD(F1)
Equipment	Oscilloscope
Adjustment	
Tool	
Таре	NTSC: VFM3580KM (Alignment Tape No.1 14 min.~22 min.)  PAL: VFM3680KM (Alignment Tape No.1 14 min.~22 min.)

- 1. Playback the Alignment tape CUE 6 KHz part.
- 2. Connect the scope to TP4381 on ADDA CUE board and confirm the CUE output level is not increased even the tape is moved to j and k arrow direction.
- 3. If the output level is increased, adjust "Tape Pass Adjustment procedures" again.

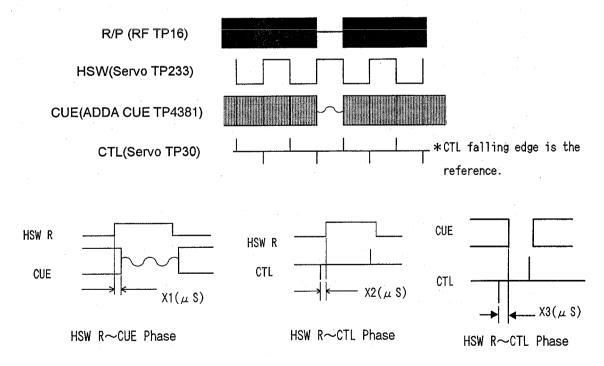




#### 5-40. A/C Head Horizontal Position Adjustment

Specification	As shown in the below figure250 $\mu$ S $\leq$ X1,X2,X3 $\leq$ 250 $\mu$ S
Mode	ATF control, PLAY mode
Test Point	TP16 :R/P Envelope (RF board : H4) TP233 : HSW_R(Servo board :F1) TP4381: CUE Output(ADDA CUE board : F8) TP30 :CTL Output(Servo BOARD : F1)
Equipment	Oscilloscope
Adjustment	A/C Head each screws
Tool	VFK0357(Eccentric driver), Hex driver
Tape	NTSC: VFM3582KM (X Value Master Tape) PAL: VFM3682KM (X Value Master Tape)

- 1. Adjust A/C Head Azimuth so that the CTL and Lack part of CUE is match in the phase.
- 2. Confirm the R/P envelope lack track, and select the HSW correspond with it. (The lack track is corresponded HSW High with L ch.)
- 3. Adjust CUE phase ( A/C Head Horizontal Position ) so that the selected HSW is match in the phase with the Lack part of CUE.
- 4. At this time, adjust the phase simultaneously with Azimuth so that the CTL and CUE phase is kept matching in the phase.
- 5. Confirm the selected HSW, CUE and CTL are match in phase.

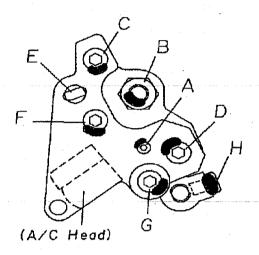


Note: If the waveform could not be stabilized by trigger (HSW or CTL) or the scope, please use the TP1100 (RFCF) on the V OUT P.C. board (F4) for trigger.

5-41. A/C Head Screw Lock Tight Grew

	Screw A	Other Screw
Lock Tight Grew Quantity	1/3 of the screw	1/3 of the screw

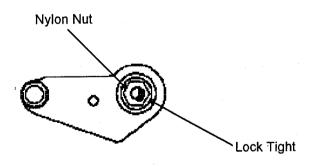
- 1. Fix the screws by Lock Tight Grew after adjustment.
- 2. Before adjustment, melt the grew.



5-42. T3 Post, T4 Post Lock Tight Grew

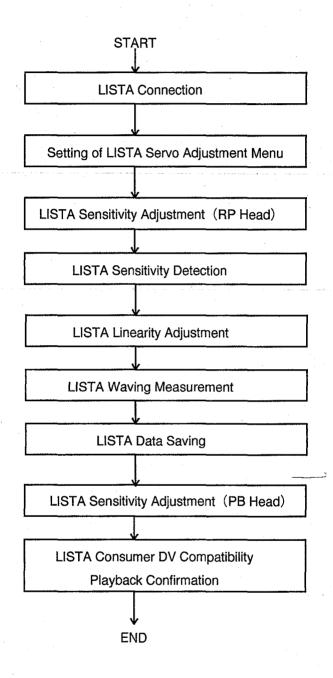
	T3 Post	T4 Post
Lock Tight Grew quantity	1/4 of the screw	1/4 of the screw

- 1. After adjustment, attach the lock tight grew at the nylon nut.
- 2. Before adjustment, melt the grew.



T4 Post

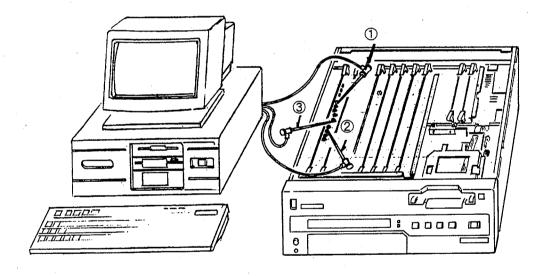
# 5-43. LISTA Adjustment Procedures



#### 5-44. LISTA Connection

Test Point	TP321:ATF error(Servo BOARD : F1)
	TP233:HSW_R/P (Servo BOARD : F1)
	TP232:HSW_PB (Servo BOARD : F1)
	TG510:GND (Servo BOARD : F1)
Equipment	LISTA set
Таре	NTSC: VFM3581KM ( Alignment tape No.2 LISTA master)
	PAL: VFM3681KM ( Alignment tape No.2 LISTA master)

- Connect the probe for LISTA A/D board to the test points as shown in the table.
   Note: HSW is connected to TP232 only for 5-51 "LISTA sensitivity adjustment (PB Head)", and HSW is connected to TP233 for all other adjustment.
- 2. Prepare the LISTA menu, and select AJ-D750 (item 1) on the menu.
- 3. Select the number of the master tape. If the master tape data is not registered, input the master tape data into PC manually.
- 4. LISTA menu is started.



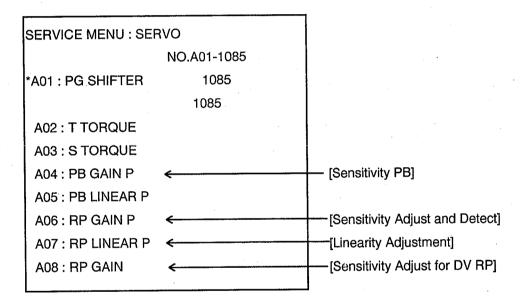
Connection of LISTA cable to Servo P.C.Board.(F1).

- ① To TP321 (ATF Error)
- ② To TP233 (HSW: R/P) or TP232(HSW: PB)
- ③ To TG510 (GND)

XLISTA cable is connected to A/D converter P.C.Board, which is installed to the Computer.

## 5-45. Setting of LISTA Servo Adjustment Menu

- 1. Connect the TV monitor to the VIDEO OUT 3.
- 2. Press the MENU button in the pocket at bottom of the front panel, then "SET-UP MENU" appears.
- 3. Pressing the EJECT button and the STOP button simultaneously, press the MENU button. Then "SERVICE MENU" appears.
- 4. Move the "\*" mark by ▲ button and ▼ button to A00 : SERVO ADJUST, and press the "SET" button. Then "Servo Adjustment Menu" is displayed.
- Move the "\*" mark by ▲ button and ▼ button and select the necessary Servo Mode.
   Refer to the each adjustment procedures for more detail.
- 6. After completion of adjustment, press the MENU button again and exit from SERVICE MENU.



SERVO Menu

LISTA Adjustment Items

# 5-46. LISTA Sensitivity Adjustment (R/P Head)

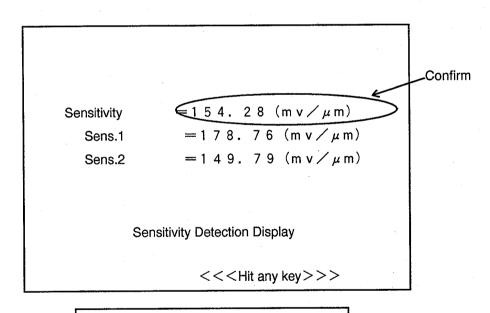
Specification	Sensitivity 150±15(mV/ μ m)
Mode	Servo Adjustment Menu: A06 RP GAIN P
Test Point	TP321 : ATF Error(Servo BOARD : F1)
	TP233 : HSW_R/P (Servo BOARD : F1)
	TG510 : GND (Servo BOARD : F1)
Equipment	LISTA Set
Adjustment	ATF Gain (Select by ◀ and ▶ buttons)
Tape	NTSC: VFM3581KM ( Alignment tape No.2 LISTA master)
	PAL: VFM3681KM ( Alignment tape No.2 LISTA master)

- 1. Display the Servo menu, and select "A06 RP GAIN P ".
- 2. Playback the LISTA Master Tape.
- 3. Select the LISTA Menu " (6) ATF Error Signal Monitor " and display the sensitivity data in real time.
- 4. When the sensitivity data is displayed, adjust ATF Gain so that the sensitivity value at right-up on the monitor is within specification.
- 5. After Adjustment, press ESC key and exit to the menu mode.
- ※ ATF Gain is adjusted by pressing ◀ button and ▶ button.

# 5-47. LISTA Sensitivity Detection

Specification	Sensitivity 150±15(mV/ μ m)
Mode	Servo Adjustment Menu :"A06 RP GAIN P"
Test Point	TP321 : ATF Error (Servo BOARD : F1)
	TP233: HSW_R/P (Servo BOARD: F1)
	TG510 : GND (Servo BOARD : F1)
Equipment	LISTA Set
Tape	NTSC: VFM3581KM ( Alignment tape No.2 LISTA master)
	PAL: VFM3681KM ( Alignment tape No.2 LISTA master)

- 1. Display the Servo menu and select [A06 RP GAIN P].
- 2. Playback the LISTA Master Tape
  - Item 1 and 2 can be omitted after "LISTA Sensitivity Adjustment (R/P)".
- 3. Select the [(1) Sensitivity Measurement] and start Sensitivity Detection.
- 4. When the sensitivity is displayed, confirm the sensitivity is in the specification.
- 5. If it is out of specification, repeat the "LISTA Sensitivity Adjustment (R/P).

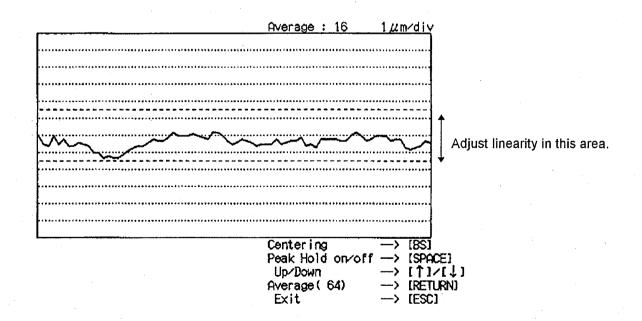


<<Sensitivity Measurement Finish>>

# 5-48. LISTA Linearity Adjustment

Specification	Linearity: Less than 3 $\mu$ m
Mode	Servo Adjustment Menu : "A07 RP LINEAR P"
Test Point	TP321 : ATF Error (Servo BOARD : F1)
	TP233 : HSW_R/P (Servo BOARD : F1)
	TG510 : GND (Servo BOARD : F1)
Equipment	LISTA Set
Tool	VFK1149(Post driver)
Adjustment	S1、T1 Post Height
Tape	NTSC: VFM3581KM ( Alignment tape No.2 LISTA master)
	PAL: VFM3681KM ( Alignment tape No.2 LISTA master)

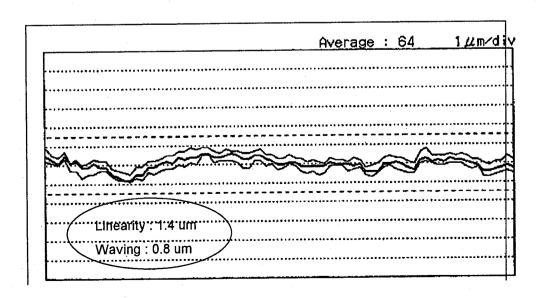
- 1. Display the Servo menu and select the "A07 RP LINEAR P ".
- 2. Playback the LISTA master tape.
- 3. Select the (2) Linearity Measurement on the LISTA menu, and display the linearity.
- 4. When linearity is displayed, adjust S1 and T1 post so that the linearity is in the specification.
- Lower part of the monitor shows the lead.
- Adjust the waveform is in the red dot lines.
- 5. Adjustment is done while observing the waveform by the oscilloscope. Adjust the post height so that the envelope is correct.



## 5-49. LISTA Waving Measurement

Specification	Waving : Less than 1.5 μ m
Mode	Servo Adjustment Menu: "A07 RP LINEAR P"
Test Point	TP321 : ATF Error (Servo BOARD : F1)
	TP233 : HSW_R/P (Servo BOARD : F1)
,	TG510 : GND (Servo BOARD : F1)
Equipment	LISTA Set
Tool	VFK1149(Post driver)
Adjustment	S1、T1 Post Height
Tape	NTSC: VFM3581KM ( Alignment tape No.2 LISTA master)
	PAL: VFM3681KM ( Alignment tape No.2 LISTA master)

- 1. Display the Servo Adjustment Menu and select "A07 RP LINEAR P ".
- 2. Playback the LISTA master tape.
- Select " (2) Linearity Measurement " of LISTA menu, and display the linearity.
   Items 1 through 3 can be omitted just after item 5-48 " Linearity Adjustment".
- 4. When linearity is displayed, press SPACE key and hold the Peak ( Peak\_Hold) during 30 second.
- 5. After the Peak\_Hold, display the Waving by pressing "SHIFT" + "}" keys and confirm the waving is in the specification.
  - Confirm the waving is same value from entrance to exit of linearity.
  - If the waving is out of specification because of bad limit of entrance or exit, adjust S1 and T1 post height again.
- 6. After completion of adjustment, press ESC key and return to the menu display.



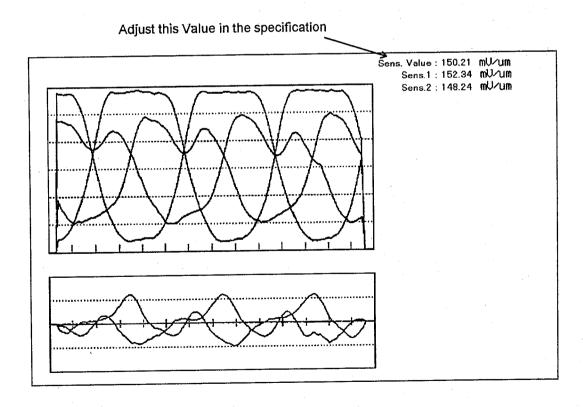
# 5-50. LISTA Data Saving

- 1. This item is done after item 5-49 " LISTA waving measurement ".
- 2. Select the "(3) Data Save / Load " of LISTA menu and select "<1> Save ".
- 3. When waving measurement result is displayed, save the data.
- 4. Confirm the data is saved.

# 5-51. LISTA Sensitivity Adjustment ( PB Head )

Specification	Sensitivity 150±15(mV/ μ m)
Mode	Servo Adjustment Menu :"A04 PB GAIN P"
Test Point	TP321 : ATF Error (Servo BOARD : F1)
	TP232: HSW_PB (Servo BOARD: F1)
	TG510 : GND (Servo BOARD : F1)
Equipment	LISTA Set
Adjustment	ATF Gain (Select by ◀ and ▶ buttons)
Таре	NTSC: VFM3581KM ( Alignment tape No.2 LISTA master)
· :	PAL: VFM3681KM ( Alignment tape No.2 LISTA master)

- 1. Display the Servo menu, and select " A04 PB Gain P "
- 2. Playback the LISTA Master Tape.
- 3. Select the LISTA Menu " (6) ATF Error Signal Monitor " and display the sensitivity data in real time.
- 4. When the sensitivity data is displayed, adjust ATF Gain so that the sensitivity value at the upper-right on the monitor is in the specification.
- 5. ATF Gain is adjusted by pressing ◀ button and ▶ button.
- 6. After Adjustment, press ESC key and exit to the menu mode.



5-52. LISTA Consumer DV Compatibility Playback Confirmation

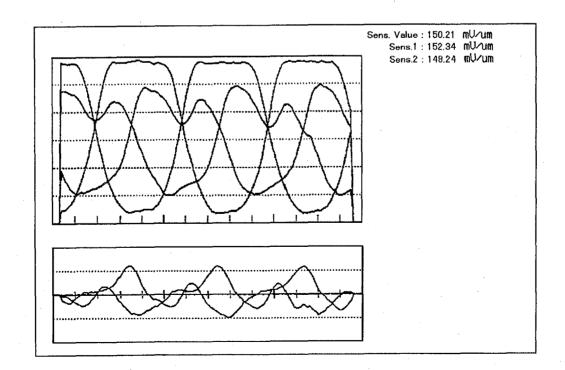
Specification	Sensitivity :130 $\pm$ 30(mV/ $\mu$ m)
Mode	Servo Adjustment Menu: "A08 RP GAIN"
Test Point	TP321 : ATF Error (Servo BOARD : F1)
	TP233 : HSW_R/P (Servo BOARD : F1)
	TG510 : GND (Servo BOARD : F1)
Equipment	LISTA Set
Tape	VFM3000EDS ( LISTA Master Tape for consumer DV )

- 1. Select "A08 RP GAIN" of the Servo Adjustment menu.
- 2. Select " (4) LISTA Alignment Tape " of LISTA menu and select the "NTSC or PAL" number of DV tape number which is used for adjustment.

NOTE: The Alignment tape (VFM3000EDS) is common use NTSC and PAL.

Please be careful select the "NTSC" or "PAL" on the above menu, which is applied to the VTR.

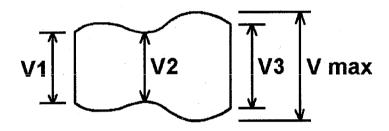
- 3. Playback the consumer DV LISTA master Tape.
- 4. Select the " (6) ATF Error Signal Monitor " and display the sensitivity data.
- 5. When the sensitivity data is displayed, adjust ATF Gain so that the sensitivity value at the upperright on the monitor is in the specification.
- 6. ATF Gain is adjusted by pressing ◀ button and ▶ button.
- 7. After completion of adjustment, press ESC key to return to the menu and select (1) sensitivity Measurement.
- 8. Confirm the sensitivity value is in the specification.



# 5-53. Playback Envelope Confirmation

Specification	V 1 / V max、V 2 / V max、V 3 / V max≥ 0.8
Mode	ATF Control PLAY
Test Point	TP15: PB Envelope (RF BOARD: H4)
Equipment	Oscilloscope
Adjustment	
Tool	
Таре	NTSC: VFM3580KM (Alignment Tape No.1 Color Bar Portion)
	PAL: VFM3680KM(Alignment Tape No.1 Color Bar Portion)

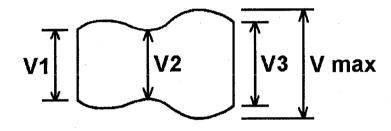
- 1. After the LISTA adjustment, Playback the color bar portion of the alignment tape.
- 2. Confirm the Envelope is in the specification.
- 3. If it is not in the specification, adjust the envelope and adjust LISTA adjustment.



# 5-54. Self Recording Playback Envelope Confirmation

Specification	V 1 / V max、V 2 / V max、V 3 / V max≧ 0.8
Mode	ATF Control PLAY
Test Point	TP16:R/P Envelope (RF BOARD:H4)
	TP15: PB Envelope (RF BOARD: H4)
Equipment	Oscilloscope
Adjustment	
Tool	
Tape	Work Tape for self recording and playback

- 1. After the LISTA adjustment, recording color bar and playback the recorded portion.
- 2. Confirm the Envelope is in the specification.
- 3. If it is not in the specification, adjust the envelope and adjust LISTA adjustment.



# **ELECTRICAL ADJUSTMENT**

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l n	cation of Test Points & Controls	

# 1 Servo Circuit Adjustment

1 - 1 Motor Torque Offset Adjustment

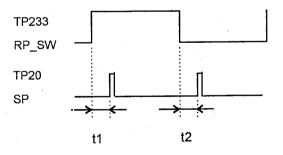
1 - 1 Motor Torque Officer Aujustinum	
BOARD	SERVO (F1)
SPEC.	15 ± 2g (5 times average)
TEST	Connect Monitor TV to VIDEO OUT3
ADJUST	Cursor button
INPUT	
MODE	EJECT (Test mode)
TAPE	No Tape
M.EQ	VFK1191 (Torque Meter)
	VFK1152 (Adapter)

- Turns Power off. Remove the front loading unit with the connection cable or remove the Top Plate of front loading unit, which is fixed by 4 screws.. Then turns Power on.
- 2. Open the Service menu.
  - ① Press the menu button.
  - ② While pressing the eject key and the stop key, Press the menu key.
- 3. Set the marker at SERVO by the cursor button(▲,▼), and set SET\_SW to ON.
- 4. Select T\_REEL\_TRQ mode by the cursor button.
- 5. Set a Torque Meter at Take-up Reel and adjust the torque in specification by cursor (<,>). Measure it 5 times and calculate the average, and adjust it so that the average is in the specification.
- 6. Select S-REEL-TRQ mode.
- Set a Torque Meter at S-REEL and adjust the torque in specification by the cursor (<,>).
   Measure it 5 times and calculate the average, and adjust it so that the average is in the specification.
- After adjustment, press the Menu button twice for the VTR is escape from Service Menu mode.
- 9. Turns Power off and return the front loading unit.

1-2 PG Shifter Adjustment

BOARD	SERVO (F1)
SPEC.	t1, t2 = 126.4µs ± 2µs
TEST	TP233, TP20
ADJUST	Cursor button
INPUT	
MODE	PLAY (Test mode)
TAPE	NTSC: VFM3580KM (0min to 14min)
	PAL: VFM3680KM (0min to 10min)
M.EQ	Oscilloscope

- 1. Open the SERVICE menu.
- Set the Marker at SERVO by cursor button (▲,▼) so that the SET\_SW is on.
- Select to PG SHIFT by cursor button (▲,▼).
- 4. Playback the color bar portion of alignment tape.
- Press cursor (<,>) button and keep it until the number which is displayed at right of PG SHIFT is renewed.
- Connect the scope to TP233 and TP320. Trigger the scope by TP233. Then it is displayed as shown in figure.
- 7. Confirm the t1 and t2 of RP\_HSW and SPA are 126.4 uS  $\pm$  2 uS .

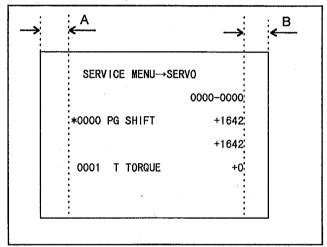


# 2 System Control

2-1 Super Impose Position Adjustment

BOARD	SYSCON (F2)
SPEC.	
TEST	
ADJUST	VC1
INPUT	
MODE	MODE:EE
TAPE	
M.EQ	Monitor TV

1. Open the SERVICE menu.



- 2. Adjust VC1 so that the width A and B are equal.
- 3. Set the front SW as shown below, and reset the MENU.

NOTE: The menu may be different from the above figure.

# 3 ADDA CUE P.C.Board

3 - 1 Initial Setting of CUE
Adjustment

	o ja o ci i i o i i c	
BOARD	ADDA (F8)	_
SPEC.		
TEST		_
ADJUST		
INPUT		
MODE		
TAPE		
M.EQ		_

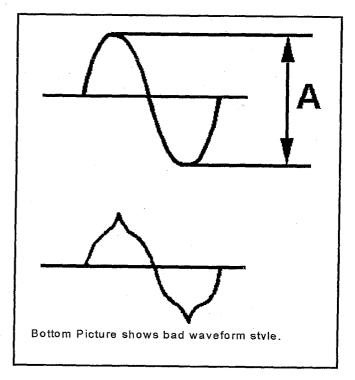
- 1. Set the Audio REC Level VR's to center.
- 2. Set the switches as shown below.

and the state of t		
Ref No,	Name	Position
SW4001	CH1 Input Impedance	HIGH
SW4061	CH2 Input Impedance	HIGH
SW4382	NR Select	TEST
SW4381	REC. EQ	ON
·		1 7 1.3 ON
		2
		3
	·	4
•	'	

3-2 CTL Erase/CUE Erase Current Adjustment

BOARD	ADDA (F8)
SPEC.	290mV ± 50mV
TEST	TP4502 (CTL Erase), TP4501 (CUE Erase)
ADJUST	T4504 (CTL Erase), T4503 (CUE Erase)
INPUT	
MODE	REC PLAY
TAPE	REC/PB Tape
M.EQ	Oscilloscope

- 1. Adjust T4504 so that the voltage at TP4502 is in the specification
- 2. Adjust T4502 so that the voltage at TP4501 is in the specification.



# 3-3 CUE Bias Current Adjustment

BOARD	ADDA (F8)
SPEC.	7mVrms ± 0.5mV
TEST	TP4382 (GND: TP4383)
ADJUST	T4501, VR4501
INPUT	No signal Input
MODE	REC-PLAY
TAPE	REC/PB Tape
M.EQ	Electric Volt Meter

- Connect the Electric Volt meter between TP4382 and TP4383 (GND) and confirm the voltage is in the specification.
- If it is out of specification, adjust T4501 so that the level becomes maximum and adjust VR4501 so that the level is in the specification.

# 3-4 CUE PB Level Adjustment

BOARD	ADDA (F8)
SPEC.	0dBu ± 0.5dB
TEST	CH1 OUT (XLR Connector)
ADJUST	VR4382
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KM (0 to 10min)
	PAL: VFM3680KM (0 to 10min)
M.EQ	Audio Analyzer

- 1. Open the SERVICE MENU.
- 2. Set the mark "\*" to AUDIO ADJUST by cursor button, then press the set button.
- 3. Select the item "E04: LINE OUT CUE" and set to on.
- 4. Playback CUE Level master part of the alignment tape and adjust VR4382 so that the CUE OUT level is in the specification.

3-5 Noise Cancel Adjustment

	ioloo wallool / lajaoalliolla	
BOARD	ADDA (F8)	
SPEC.	Less than -40dBu	
TEST	CH1 OUT (XLR Connector)	
ADJUST	VR4383, VR4384	
INPUT		
MODE	PLAY	
TAPE	No Signal Recorded Tape	
M.EQ	Audio Analyzer	

- Connect the Audio Analyzer to CH1 OUT with 1/3 OCT BPF (600Hz) and the noise level is in the specification.
- 2. If it is not adjust VR4384 and then adjust VR4383 so the noise level is in the specification.
- 3. If it is not, repeat item 2.

3-6 CUE REC/PB Level Coarse Adjustment

BOARD	ADDA (F8)	
SPEC.	0dBu ± 1dB	
TEST	CH1 OUT (XLR Connector)	
ADJUST	VR4381	
INPUT	1KHz, 0dBu	
MODE	REC PLAY	
TAPE	REC/PB Tape	
M.EQ	Audio Analyzer	

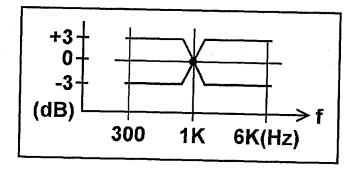
- 1. Open the SERVICE menu.
- Set the mark "\*" to item "E00:AUDIO ADJUST" by cursor button, then press the SET button.
- 3. Select item "E04:LINE OUT CUE" and set to on.
- 4. During the recording mode, slightly adjust VR4381.
- 5. Playback the just recorded portion and confirm that the Audio level is within the specification.
- 6. If not, repeat steps 4 and 5.

3 - 7 CUE REC/PB Frequency Characteristic Adjustment

Characteristic Adjustment		
BOARD	ADDA (F8)	
SPEC.	300Hz~6kHz 1KHz± 3dB	
TEST	CH1 OUT (XLR Connector)	
ADJUST	SW4382 SW4381-1,2,3,4	
INPUT	300Hz~6kHz, 0dBu	
MODE	REC PLAY	
TAPE	REC/PB Tape	
M.EQ	Audio Analyzer	

- 1. Set SW4382 at normal side.
- 2. Record a 300Hz through 6kHz, 0dBu sine waveform for a few minutes.
- Playback the just recorded portion and confirm the 300Hz through 6kHz signal are within ± 3dB compared with 1kHz level.
- 4. If it is out of specification adjust frequency characteristic by SW4381-1,2,3,4.

SW4381-3,4  $\rightarrow$  1kHz~6kHz SW4381-1,2  $\rightarrow$  6kHz



3-8 CUE REC/PB Level Adjustment

BOARD	ADDA (F8)
SPEC.	0dBu ± 1dB
TEST	CH1 OUT (XLR Connector)
ADJUST	VR4381
INPUT	1kHz, 0dBu
MODE	REC PLAY
TAPE	REC/PB Tape
M.EQ	Audio Analyzer

- 1. Open the SERVICE menu.
- Set the mark "\*" to item "E00:AUDIO ADJUST" by cursor button, then press the SET button.
- 3. Select item "E04:LINE OUT CUE" and set to on.
- 4. During the recording mode, slightly adjust VR4381.
- 5. Playback the just recorded portion and confirm that the Audio level is within the specification.
- 6. If not, repeat steps 4 and 5.

### 4RF

4-1 Pre EQ Adjustment

	1 TO ME OF TOTAL CONTINUES
BOARD	Connect the RF AMP board (H4) with a extension board.
SPEC.	2.5VDC ± 0.2V(DVCPRO) 2.0 + 0.5V(DV)
TEST	TP20,TP18
ADJUST	EVR (RP MAG L, RP MAG R,PB MAG L, PB MAG
	R)
MODE	PLAY
TAPE	(NTSC:VFM3010EDS, PAL:VFM3110EDS)
	(NTSC: VFM3580KM, PAL: VFM3680KM)
M.EQ	Oscilloscope (Greater than 300Mhz)
	Monitor TV (Connect to VIDEO 3 OUT)

- Connect the RF AMP board (H4) with extension board.
- 2. Connect the scope to TP20 and connect the ground to TG9.
- 3. Connect the scope to TP1 for trigger.
- 4. Insert a DV MASTER Tape.
- 5. Open the service menu.
- 6. Set the mark "\*" item "C00 RF Adjust" by cursor button, then press the set button.
- Playback a color bar portion of DV Color bar Master Tape.
- 8. Adjust C09 RP MAG L and C10 RP MAG R so that the DC voltage is 2.0  $\pm$  0.5V.
- Eject a DV MASTER Tape then insert a DVCPRO master tape (VFM3580KM).
- 10. Playback the color bar portion of VFM3580KM.
- 11. Adjust C09 RP MAG L and C10 RP MAG R so that the DC voltage is 2.5  $\pm$  0.2V.
- 12. Connect the scope TP18 and connect the ground to TG7.
- 13. Connect the scope TP2 for trigger.
- 14. Adjust C13 PB MAG L and C14 PB MAG R so that the DC voltage is 2.5  $\pm$  0.2V.

### 4-2 RF AMP PB Phase Adjustment

	1 / litil 1 D 1 Hace / lajacenten	
BOARD	Connect the RF AMP board (H4) with a extension board.	
SPEC.	Error Rate Minimum	
TEST	Front display	
ADJUST	EVR (RP PHASE L, RP PHASE R,	
	PB PHASE L, PB PHASE R)	
INPUT		
MODE	PLAY	
TAPE	(NTSC:VFM3010EDS, PAL:VFM3110EDS)	
	(NTSC: VFM3580KM, PAL: VFM3680KM)	
M.EQ		

- 1. Open the Service Menu.
- 2. Insert a DV alignment Tape.
- 3. Set the items as shown below.

C17 CONCEAL MODE ON
C18 VITERBI MODE OFF
C19 PB MODE RP H
C20 ERROR MODE FAST

4. Playback a color bar portion.

- Set the Audio CHANNEL indicator to "CH2" by pressing [DIAG] button (Video error is appeared on the Audio meter).
- Adjust RP PHASE L and RP PHASER so that the error rate is minimum.
- 7. Insert a VFM3680KM.
- 8. Set the items as shown below.

C17 CONCEAL MODE ON
C18 VITERBI MODE ON
C19 PB MODE PR H
C20 ERROR MODE FAST

- 9. Playback a color bar portion of VFM3680KM.
- 10. Adjust RP PHASE L and RP PHASE R so that the error rate is minimum.
- 11. Change item C19:PB MODE to PB H from RP H.
- 12. Adjust PB PHASE L and PB PHASE R so that the error rate is minimum.

## 5 EQ

# **5-1** Preparation of EQ Adjustment

How to open the EQ MENU.

- 1. Open the service menu.
  - ① Press the menu button.
  - ② While pressing the eject key and the stop key, press the menu key.
- 2. Set the mark "\*" to item "B00 EQ Adjust" by cursor button, then press set button.

5-2 PLL Lock Adjustment (PB)

BOARD	EQ (H3)
SPEC.	
TEST	TP403, Monitor
ADJUST	VR410, PB PLL PHASE, PB PLL SLICE
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KM (Color Bar portion)
	PAL: VFM3680KM (Color Bar portion)
M.EQ	TV Monitor

- 1. Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

B24 ECC MODE AL OFF
B25 CONCEAL MODE OFF
B26 VITERBI MODE OFF
B27 PB MODE PB H
B28 ERROR MODE FAST
B29 EQ AUTO ADJ STOP

- 5. Playback a color bar tape and confirm the picture is appeared on the monitor.
- 6. If picture is not appeared, adjust following items.
  - (1) Connect the scope to TP403 and adjust the level is 2.1 V DC.
  - (2) B01 Adjust PB PLL PHASE. B02 Adjust PB PLL SLICE.
- Repeat STOP to PLAY mode, and confirm the picture is surely appeared every time. If the picture is not appeared, repeat item 3.

5-3 PLL Latch Phase Coarse Adjustment (PB)

BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Front display
ADJUST	PB PLL PHASE
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KM (Color Bar portion)
	PAL: VFM3680KM (Color Bar portion)
M.EQ	

- 1. Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

B24 ECC MODE AL OFF
B25 CONCEAL MODE OFF
B26 VITERBI MODE OFF
B27 PB MODE PB H
B28 ERROR MODE FAST
B29 EQ AUTO ADJ STOP

- 5. Playback the color bar portion of the alignment tape.
- Adjust B01 PB PLL PHASE so that the video error rate becomes minimum.

5-4 PLL Slice Level Coarse Adjustment (PB)

Aujustinent (i b)		
BOARD	EQ (H3)	
SPEC.	Error Rate Minimum	
TEST	Front display	
ADJUST	PB PLL SLICE	
INPUT		
MODE	PLAY	
TAPE	NTSC: VFM3580KM (Color Bar portion)	
	PAL: VFM3680KM (Color Bar portion)	
M.EQ		

- 1. Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

B24 ECC MODE AL OFF
B25 CONCEAL MODE OFF
B26 VITERBI MODE OFF
B27 PB MODE PB H
B28 ERROR MODE FAST
B29 EQ AUTO ADJ STOP

- 5. Playback a color bar portion of the alignment tape.
- 6. Adjust B02 PB PLL SLICE so that the video error rate becomes minimum.

5-5 EQ Adjustment (1)(PB)

BOARD	EQ (H3)	
SPEC.	Error Rate Minimum	
TEST	Front display	
ADJUST	PB MAIN DL	
INPUT		
MODE	PLAY	
TAPE	NTSC: VFM3580KM (Color Bar portion)	
	PAL: VFM3680KM (Color Bar portion)	
M.EQ		

- 1. Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

B24 ECC MODE AL OFF
B25 CONCEAL MODE OFF
B26 VITERBI MODE OFF
B27 PB MODE PB H
B28 ERROR MODE FAST
B29 EQ AUTO ADJ STOP

- 5. Playback a color bar portion of the alignment tape.
- 6. Adjust B19 PB MAIN DL so that the video error rate is minimum.

5-6 EQ Adjustment (2)(PB)

	de Majarotinone (=/\frac{1}{2})
BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Front display
ADJUST	PB AEQ, PB GAIN L, PB PHASE L, PB
	GAIN R, PB PHASE R
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KM (Color Bar portion)
	PAL: VFM3680KM (Color Bar portion)
M.EQ	

- Insert a alignment tape. 1.
- Open the service menu. 2.
- Select the item B00 EQ Adjust. 3.
- Set the items as shown below.

**B24 ECC MODE** 

AL OFF

**B25 CONCEAL MODE** 

**OFF** 

**B26 VITERBI MODE** 

OFF

**B27 PB MODE** 

PB H

**B28 ERROR MODE** 

**FAST** 

**B29 EQ AUTO ADJ** 

STOP

- Playback the color bar portion of the alignment tape.
- Adjust each adjustment item so that the each portion's error rate becomes minimum as shown in the table.

Procedures	Adjust VR	Error Rate Portion
1	PB AEQ	VIDEO R & L CH
2	PB GAIN L	VIDEO L CH
3	PB PHASE L	VIDEO L CH
4	PB GAIN R	VIDEO R CH
5	PB PHASE R	VIDEO R CH

**PLL Latch Phase Fine** Adjustment (PB)

	ajustilient (i b)
BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Front display
ADJUST	PB PLL PHASE
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KM (Color Bar portion)
	PAL: VFM3680KM (Color Bar portion)
M.EQ	

- Insert a alignment tape. 1.
- Open the service menu. 2.
- Select the item B00 EQ Adjust.
- Set the items as shown below.

**B24 ECC MODE** 

AL OFF

**B25 CONCEAL MODE** 

OFF

**B26 VITERBI MODE** 

OFF

B27 PB MODE

PB H **FAST** 

**B28 ERROR MODE B29 EQ AUTO ADJ** 

STOP

- Playback the color bar portion of the alignment tape.
- Adjust PB PLL PHASE so that the video error rate becomes minimum.

5-8 PLL Slice Level Fine Adjustment (PB)

	iajaoumonic (i D)
BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Front display
ADJUST	PB PLL SLICE
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KM (Color Bar portion)
	PAL: VFM3680KM (Color Bar portion)
M.EQ	

- 1. Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

B24 ECC MODE AL OFF
B25 CONCEAL MODE OFF
B26 VITERBI MODE OFF
B27 PB MODE PB H
B28 ERROR MODE FAST
B29 EQ AUTO ADJ STOP

- 5. Playback the color bar portion of the alignment tape.
- 6. Adjust PB PLL SLICE so that the video error rate becomes minimum.

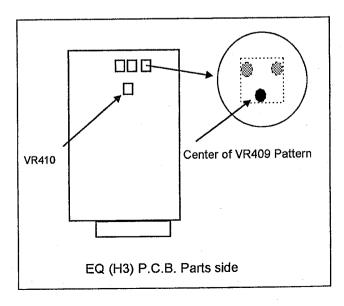
5-9 Viterbi A/D Input Level Adjustment

BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Front display, Center of VR409 Pattern
ADJUST	VTB GAIN, VR801
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KM (Color Bar portion)
	PAL: VFM3680KM (Color Bar portion)
M.EQ	Electric Volt Meter

- 1. Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

B24 ECC MODE AL OFF
B25 CONCEAL MODE OFF
B26 VITERBI MODE ON
B27 PB MODE PB H
B28 ERROR MODE FAST
B29 EQ AUTO ADJ STOP

- 5. Playback the color bar portion of the alignment tape.
- Adjust VTB GAIN so that the video error rate is minimum.
- Connect the Electric Volt Meter to "Center of VR409 Pattern" and confirm the DC voltage is 2.1
   V DC to 2.4 V DC. If it is not, adjust VR801.
- 8. Turns VITERBI MODE off after adjustment.



5-1 0 PLL Lock Adjustment (R/P Head)

BOARD	EQ (H3)
SPEC.	
TEST	TP203, Monitor
ADJUST	VR210, RP PLL PHASE, RP PLL SLICE
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KM (Color Bar portion)
	PAL: VFM3680KM (Color Bar portion)
M.EQ	TV Monitor

- 1. Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

**B24 ECC MODE** 

AL OFF

**B25 CONCEAL MODE** 

OFF

**B26 VITERBI MODE** 

OFF

507 DD 110DE

RPH

B27 PB MODE

\_.\_\_

B28 ERROR MODE

FAST

B29 EQ AUTO ADJ

STOP

- Playback the color bar portion of the alignment tape and confirm the picture appears on the monitor.
- 6. If the picture is not appeared adjust following items.
  - (1) Connect the Electric Volt Meter to TP203 and adjust VR210 so that the DC voltage is 2.1 V DC.
  - (2) Adjust RP PLL PHASE Adjust RP PLL SLICE
- 4. Repeat STOP to PLAY and confirm the picture is surely appeared. If it is not, repeat item 3.

5-11 PLL Latch Phase Adjustment (R/P)

BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Front display
ADJUST	RP PLL PHASE
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KM (Color Bar portion)
	PAL: VFM3680KM (Color Bar portion)
M.EQ	

- Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

B24 ECC MODE

AL OFF

**B25 CONCEAL MODE** 

OFF

**B26 VITERBI MODE** 

OFF

B27 PB MODE

**RPH** 

**B28 ERROR MODE** 

FAST

B29 EQ AUTO ADJ

STOP

Adjust RP PLL PHASE so that the video error rate is minimum. 5-1 6 PLL Slice Level Fine Adjustment (R/P)

	, , , , , , , , , , , , , , , , , , ,
BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Front display
ADJUST	RP PLL SLICE
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KM (Color Bar portion)
	PAL: VFM3680KM (Color Bar portion)
M.EQ	

- 1. Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

B24 ECC MODE AL OFF
B25 CONCEAL MODE OFF
B26 VITERBI MODE OFF
B27 PB MODE RP H
B28 ERROR MODE FAST
B29 EQ AUTO ADJ STOP

- 5. Playback a color bar portion of the alignment tape.
- 6. Adjust RP PLL SLICE so that the video error rate is minimum.

5-1 7 PLL LOCK Confirmation (Consumer DV)

BOARD	EQ (H3)
SPEC.	
TEST	Monitor
ADJUST	PB PLL SLICE
INPUT	
MODE	PLAY
TAPE	(Consumer DV Alignment Tape)
	NTSC:VFM3010EDS, PAL:VFM3110EDS
M.EQ	

- 1. Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

B24 ECC MODE AL OFF
B25 CONCEAL MODE OFF
B26 VITERBI MODE OFF
B27 PB MODE RP H
B28 ERROR MODE FAST
B29 EQ AUTO ADJ STOP

5. Playback the color bar portion of the alignment tape and confirm the picture appears on the monitor.

If the picture is not appeared adjust PB PLL SLICE.

Repeat STOP to PLAY and confirm the picture is surely appeared. If it is not, repeat item 3. 5-1 8 PLL Slice Level Coarse Adjustment (Consumer DV)

	tajastilistic (Solisalitis 21)
BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Front display
ADJUST	PB PLL SLICE
INPUT	
MODE	PLAY
TAPE	(Consumer DV Alignment Tape) NTSC:VFM3010EDS, PAL:VFM3110EDS
M.EQ	

- 1. Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

B24 ECC MODE AL OFF
B25 CONCEAL MODE OFF
B26 VITERBI MODE OFF
B27 PB MODE RP H
B28 ERROR MODE FAST
B29 EQ AUTO ADJ STOP

- 5. Playback the color bar portion of the alignment tape
- 6. Adjust PB PLL SLICE, so that the video error rate is minimum

5-1 9 EQ Adjustment (1) (Consumer DV)

BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Front display
ADJUST	PB MAIN DL
INPUT	
MODE	PLAY
TAPE	(Consumer DV Alignment Tape) NTSC:VFM3010EDS, PAL:VFM3110EDS
M.EQ	

- 1. Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

B24 ECC MODE AL OFF
B25 CONCEAL MODE OFF
B26 VITERBI MODE OFF
B27 PB MODE RP H
B28 ERROR MODE FAST
B29 EQ AUTO ADJ STOP

- 5. Playback the color bar portion of the alignment tape.
- Adjust PB MAIN DL so that the error rate is minimum.

5-20 EQ Adjustment (2) (Consumer DV)

	,
BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Front display
ADJUST	PB AEQ, PB GAIN L, PB PHASE L,
	PB GAIN R, PB PHASE R
INPUT	
MODE	PLAY
TAPE	(Consumer DV Alignment Tape)
	NTSC:VFM3010EDS, PAL:VFM3110EDS
M.EQ	

- 1. Insert a alignment tape.
- 2. Open the service menu.
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

**B24 ECC MODE** 

AL OFF

**B25 CONCEAL MODE** 

OFF

**B26 VITERBI MODE** 

OFF

B27 PB MODE

011

DZ7 I D WODL

**RPH** 

B28 ERROR MODE

FAST

B29 EQ AUTO ADJ

STOP

- 5. Playback the color bar portion of the alignment tape.
- 6. Adjust each adjustment item so that the error rate is minimum.

Procedures	Adjust VR	Error Rate Portion
1	PB AEQ	VIDEO R & L CH
2	PB GAIN L	VIDEO L CH
3	PB PHASE L	VIDEO L CH
4	PB GAIN R	VIDEO R CH
5	PB PHASE R	VIDEO R CH

5-2 1 PLL Slice Level Fine
Adjustment (Consumer DV)

BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Front display
ADJUST	PB PLL PHASE
INPUT	
MODE	PLAY
TAPE	(Consumer DV Alignment Tape)
	NTSC:VFM3010EDS, PAL:VFM3110EDS
M.EQ	

- 1. Insert a alignment tape.
- 2. Open the service menu,
- 3. Select the item B00 EQ Adjust.
- 4. Set the items as shown below.

B24 ECC MODE

AL OFF

**B25 CONCEAL MODE** 

OFF

**B26 VITERBI MODE** 

OFF

**B27 PB MODE** 

**RPH** 

**B28 ERROR MODE** 

FAST

B29 EQ AUTO ADJ

STOP

- Playback the color bar portion of the alignment tape.
- Adjust PB PLL SLICE so that the video error rate becomes minimum.

## 5-22 Consumer DV Viterbi Confirmation

BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Front display
ADJUST	VTB GAIN, PB PLL PHASE
INPUT	
MODE	PLAY
TAPE	(Consumer DV Alignment Tape)
	NTSC:VFM3010EDS, PAL:VFM3110EDS
M.EQ	

- Insert a alignment tape.
- 2. Open the service menu.
- Select the item B00 EQ Adjust. 3.
- Set the items as shown below.

**B24 ECC MODE** AL OFF **B25 CONCEAL MODE** OFF **B26 VITERBI MODE** ON **B27 PB MODE RPH B28 ERROR MODE FAST** 

**B29 EQ AUTO ADJ** 

5.

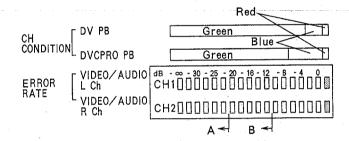
- STOP Playback the color bar portion of the alignment
- Confirm the error rate is improved by Viterbi on. The improvement can be confirmed by the error rate meter decrease 5 scale on the front audio meter.
- If the error rate is not improved so much, adjust following items.
  - (1) Adjust VTB GAIN.
  - (2) Adjust PB PLL PHASE

#### How to confirm the Error Rate

- Playback a DVCPRO/DV Alignment tape.
- Set the items as shown below.

EQ MENU	DVCPRO PB	DV PB
B24 ECC MODE	AL OFF	AL OFF
<b>B25 CONCEAL MODE</b>	OFF	OFF
B26 VITERBI MODE	AUTO	AUTO
B27 PB MODE	PB H	RP H
B28 ERROR MODE	SLOW	SLOW
B29 EQ AUTO ADJ	STOP	STOP

Set the Audio Channel indicator to "CH2" by pressing [DIAG] button (Video error is appeared on the Audio meter).



Release refer to condition of the error rate follow the tape format and VTR mode. Indicated as below.

DVCPRO: less than "A" position at level meter.

DV : less than "B" position at level meter.

## 6 RF AMP P.C. Board

#### **REC Current, Frequency** 6 - 1 **Characteristic Adjustment**

	rial documento rajustinont
BOARD	RF AMP (H4)
SPEC.	
TEST	TP17, TG7 (GND), TP2 (TRIG)
ADJUST	EVR (REC CUR L, REC CUR R, REC FREQ
	L, REC FREQ R) VC600, VC601
INPUT	100% Color Bar
MODE	PLAY, REC / PLAY
TAPE	Color Bar
	NTSC: VFM3580KM, PAL: VFM3680KM
	REC / PB Tape
M.EQ	Spectrum Analyzer /
	Monitor TV (Connect to VIDEO 3 OUT)

- Connect a extension board with RF AMP board
- 2. Insert a Alignment tape.
- 3. Set the items as shown below.

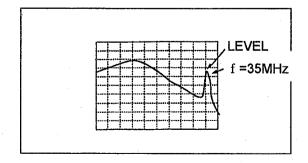
C17 CONCEAL MODE

ON

C18 VITERBI MODE

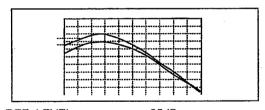
ON

- C20 ERROR MODE
- **FAST**
- 4. Playback a color bar portion of the alignment tape and write down the error rate (Error rate-A).
- 5. Connect the trigger of spectrum Analyzer at TP2.
- 6. Connect the spectrum Analyzer In at TP17 with a 50ohm coaxial cable (Use GND at TG7).
- 7. Store the signal on the Spectrum Analyzer in TRACE-A.
- 8. Eject the color bar tape and insert a R/P tape and record a color bar 100% signal.
- Adjust VC600 and VC601 so that the peak level of TRACE-B at 35MHz is minimum.



- 10. Adjust "REC CUR L" and "REC CUR R" so that the level of TRACE-B at 5 MHz is -4 dB ± 0.5 dB of TRACE-A.
- 11. Adjust "REC FREQ L" and "REC FREQ R" so that the level at 20 MHz at TRACE-B is maximum.
  - POINT: Set the confidence playback level is lower less than level of TRACE-A and increase the gain gradually by JOG Dial so that the level is maximum.
    - Please set the adjustment value in the first place the level is became maximum.
- 12. Adjust REC CUR L and REC CUR R so that the level at 5 MHz of TRACE-B is same as TRACE-A.
- POINT: Set the confidence playback level is lower less than level of TRACE-A and increase the gain gradually by JOG Dial so that the level is same as TRACE-A.
- 13. If the level of TRACE B is not same as TRACE A, Confirm that the level of TRACE B is within 0 to -2dB against TRACE A (spec: 0 to -2dB).
- 14. Record for one minute keeping the above condition. Then playback the just recorded portion and confirm the error rate is same or better than Error Rate A.
- 15. Return the RF AMP board into the unit.

#### **■ ITEM PARAMETER**



REF. LEVEL

-25dB

ATT

10dB

DIV

5dB/DIV

START FREQUENCY OKHZ

STOP FREQUENCY 40MHz

**RES VW** 

1MHz

**VBW** 

3KHz

**SWEEP** 

300msec

**TRIGGER** 

EXT (HEAD SW)

6 - 2 Rotary Erase Current Adjustment

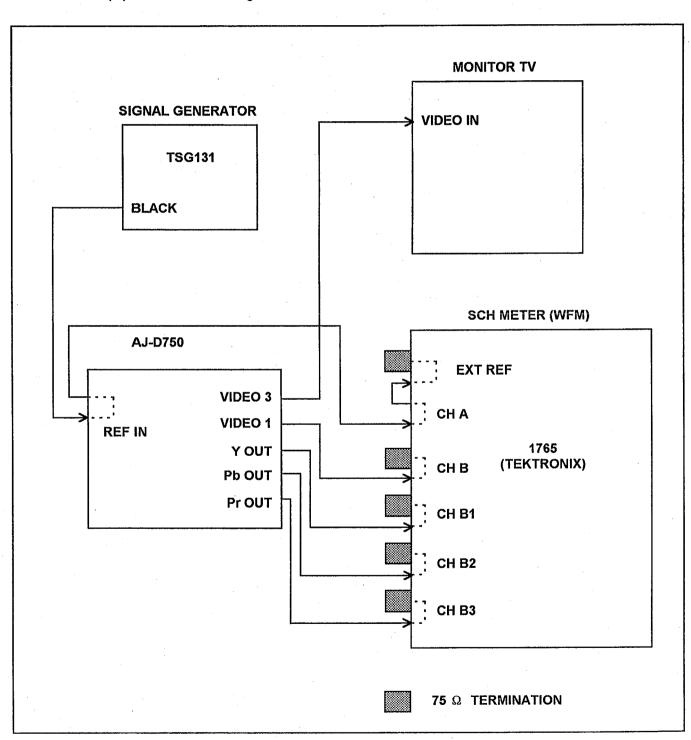
	Majaodilictic	_
BOARD	RF AMP (H4)	
SPEC.	1.0 ±0.12V	
TEST	TP11, TP12	
ADJUST	VR13, VR14	
INPUT	100% Color Bar	
MODE	REC / PLAY	
TAPE	REC / PLAY Tape	
M.EQ	Oscilloscope	

- Insert a REC/PLAY tape auto record a 100% color bar.
- 2. Connect a scope to TP11 with 10:1 probe and adjust VR13 (RE A) so that the DC level is in the specification (1.0  $\pm$  0.2V).
- 3. Then connect the scope to TP12 and adjust VR14 (RE B) so that the DC level is in the specification (1.0  $\pm$  0.2V).

## 7 Video Out P.C.Board

# **Preparation for Video Out Adjustment**

1. Connect the equipment as shown in Figure.



7-1. DA Reference Voltage Adjustment

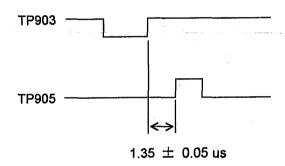
	iajaouriorie
BOARD	V OUT (F4)
SPEC.	3.9 ± 0.05VDC
TEST	TP300
ADJUST	VR300 (F-1)
INPUT	
MODE	Play
TAPE	Alignment Tape
M.EQ	Oscilloscope

1. Adjust VR300 so that the DC Voltage is 3.9  $\pm$  0.05V.

7-2. Sampling Position Adjustment

	(d) de 011.01.0
BOARD	V OUT (F4)
SPEC.	1.35 ± 0.05us
TEST	TP903, TP905
ADJUST	VR900 (C-1)
INPUT	
MODE	Play
TAPE	Alignment Tape
M.EQ	Oscilloscope

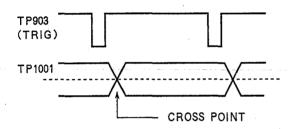
Adjust VR900 so that the phase difference is 1.35  $\pm$  0.05us between the rising edge at TP903 and the rising edge at TP905 as shown in figure.



7-3. PLL center Frequency Adjustment

	lajustinent.
BOARD	V OUT (F4)
SPEC.	0 ± 0.1V
TEST	TP1001, TP903 (TRIG)
ADJUST	VC1000 (C-1)
INPUT	
MODE	Play
TAPE	Alignment Tape
M.EQ	Oscilloscope

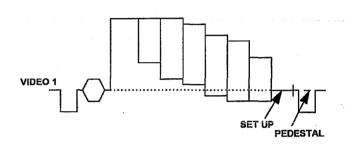
Adjust VC1000 so that the waveform of cross point at TP1001 is  $0 \pm 0.1V$  as shown in figure.



7-4. Composite Setup Adjustment

BOARD	V OUT (F4)
SPEC.	Setup level = pedestal level
TEST	Video out1
ADJUST	VR802 (I-1)
INPUT	
MODE	Play
TAPE	VFM3680KM 0min to 10min
M.EQ	WFM

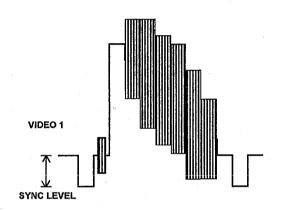
1. Adjust VR802 so that the level difference between the setup level and the pedestal level is  $0\,\pm\,10\text{mV}$ .



7-5. Sync Level Adjustment

7-0: Oyno Ecter Adjustment	
BOARD	V OUT (F4)
SPEC.	0.3V ± 1%
TEST	Video out1
ADJUST	VR400 (F-1)
INPUT	
MODE	Play
TAPE	VFM3680KM 0min to 10min
M.EQ	WFM

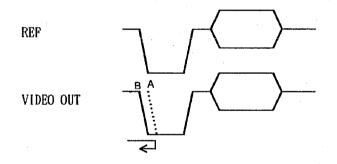
1. Adjustment VR400 so that the sync level is 40  $0.3V \pm 1\%$ .



7-6. H PHASE Adjustment

BOARD	V OUT (F4)
SPEC.	
TEST	Video out1
ADJUST	VR1100 (C-1)
INPUT	
MODE	Play
TAPE	VFM3680KM 0min to 10min
M.EQ	WFM

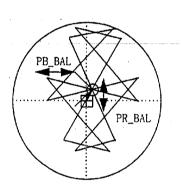
- 1. Set WFM in the EXT-REF MODE
- Adjust VR1100 so that the relation between the REF H PHASE and V out H PHASE is as follows by selecting the WFM input REF and V out.
  - (1) Adjust VR1100 so that the V out H PHASE is at A position.
  - (2) After the item (1), Adjust VR1100 so that the V out H PHASE is at B position.



7-7. Carrier Balance Adjustment

Garrior Bararioo / tajaotiriorit	
BOARD	V OUT (F4)
SPEC.	
TEST	Video out1
ADJUST	VR505 (H-1), VR506 (H-2)
INPUT	
MODE	Play
TAPE	VFM3680KM Omin to 10min
M.EQ	VECTOR SCOPE

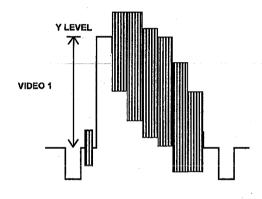
- 1. Set Vector Scope in the MAX GAIN MODE.
- Adjust VR505 and VR506 so that the center cross point of the Vector is positioned at the center of vector scope.



7-8. Composite Y Level Adjustment

V OUT (F4)
0.7V ± 1%
Video out1
VR800 (I-2)
Play
VFM3680KM 0min to 10min
WFM

1. Adjust VR800 so that the Y level is 0.7V  $\pm$ 1%.



7-9. Vector Adjustment

Octor Majacement
V OUT (F4)
Video out1
VR507(I-1),VR502(I-2),VR501(H-1)
VR500(H-2),VC500(I-3)
pa m promise
Play
VFM3680KM 0min to 10min
VECTOR SCOPE

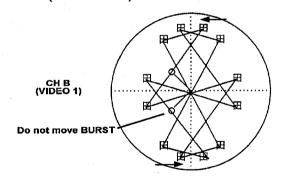
- 1. Set the Burst on the Vector scope at correct position.
- 2. Adjust VR507,VR502,VR501,VR500 and VC500 so that the each vector points are in the marker on the vector scope.

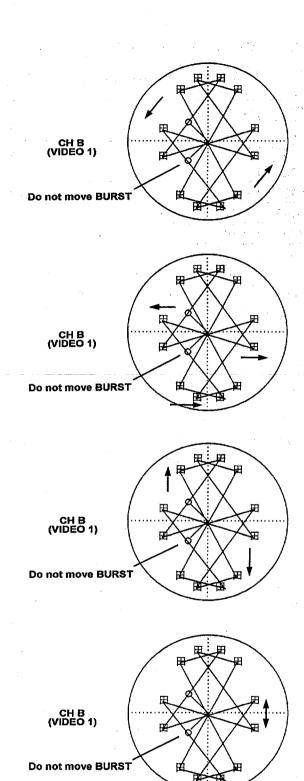
VR507 (QUAD) VR502 (HUE) VR501 (ENC PB LEV) VR500 (ENC PR LEV)

: Diagonal direction: Rotary direction

: Horizontal direction : Vertical direction

VC500 (PAL PHASE)

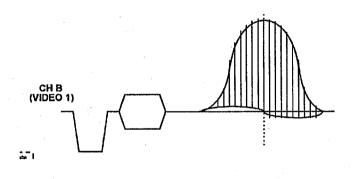




7-10. Composite YC Timing Adjustment

	lajustinent
BOARD	V OUT (F4)
SPEC.	0 ± 10us
TEST	Video out1
ADJUST	VR803 (J-2)
INPUT	Division and display
MODE	Play
TAPE	VFM3680KM 22min to 26min
M.EQ	WFM

- Adjust VR803 so that the right part and left part of 12.5T waveform is symmetric as shown in figure.
- 2. After this adjustment, adjust the Burst adjustment.

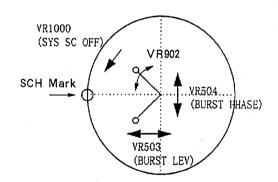


7-11. Burst Adjustment

BOARD	V OUT (F4)
SPEC.	
TEST	Video out1
ADJUST	VR1000 (C-1), VR503 (H-2)
	VR504 (H-1), VR902 (B-1)
INPUT	
MODE	Play
TAPE	VFM3680KM 0min to 10min
M.EQ	SCH Meter

 Adjust VR1000, VR503, VR504 and VR902 so that Video out signal is match REF IN signal (SYS-SC, Burst level, Burst phase, SCH PHASE).

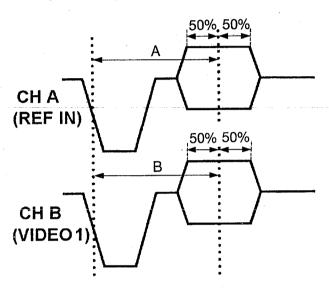
VR1000 (SYS SC OFF) VR503 (Burst level) VR504 (Burst phase) VR902 (SCH phase)



7-12. Burst Phase Adjustment

1-12. Datat Hase Aujustilient		
BOARD	V OUT (F4)	
SPEC.		
TEST	Video out 1	
<b>ADJUST</b>	VR1102 (B-2)	
INPUT		
MODE	Play	
TAPE	VFM3680KM 0min to 10min	
M.EQ	WFM	

1. Adjust VR1102 so that A=B as shown in figure.



7-13. Vector Fine Adjustment

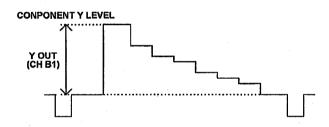
V OUT (F4)
Video out1
VR507(I-1),VR502(I-2),VR501(H-1)
VR500(H-2),VC500(I-3)
*****
Play
VFM3680KM 0min to 10min
VECTOR SCOPE

1. After completion of adjustment items from 7-10 to 7-12, repeat adjustment item 7-9 Vector Adjustment.

7-14. Component Y Level Adjustment

	lujusunent	
BOARD	V OUT (F4)	
SPEC.	700mV ± 1%	
TEST	YOUT	
ADJUST	VR301 (G-1)	
INPUT		
MODE	Play	
TAPE	VFM3680KM 0min to 10min	
M.EQ	WFM	

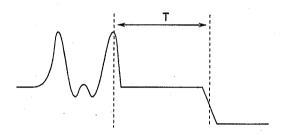
1. Adjust VR301 so that the Y level is 700 mV  $\pm$  1%.



7-15. Video Phase Adjustment

V OUT (F4)
0.96 ± 0.02u
Y out
VR1050 (A-1)
Play
VFM3680KM 14min to 18min
WFM

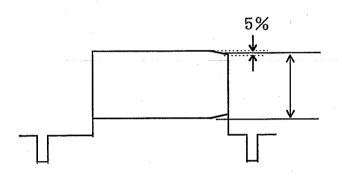
- 1. Playback the active area marker portion of the alignment tape.
- 2. Adjust VR1050 so that the timing T is within specification as shown in figure.



7-16. Component Y Frequency Adjustment

	Maderione
BOARD	V OUT (F4)
SPEC.	5.75 MHz -5%
TEST	Y out
ADJUST	VR304 (G-1)
INPUT	
MODE	Play
TAPE	VFM3680KM 10min to 14min
M.EQ	WFM

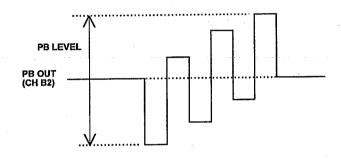
Adjust VR304 so that the frequency characteristic is flat.



7-17. Component PB Level Adjustment

	107 0.0 0.1.0 1.0	
BOARD	V OUT (F4)	
SPEC.	700mV ± 1%	1. 4
TEST	PB OUT	
ADJUST	VR306 (F-1)	
INPUT		1.5
MODE	Play	
TAPE	VFM3580KM 0min to 10min	
M.EQ	WFM	

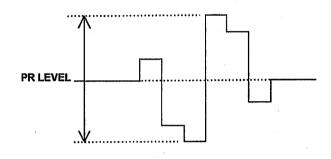
1. Adjust VR306 so that the PB level is 700mV  $\,\pm\,$  1%.



7-18. Component PR Level Adjustment

	iajaotinone
BOARD	V OUT (F4)
SPEC.	700mV ± 1%
TEST	PR out
ADJUST	VR305 (G-1)
INPUT	
MODE	Play
TAPE	VFM3680KM 0min to 10min
M.EQ	WFM

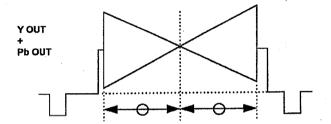
1. Adjust VR305 so that the PR level is 700mV  $\pm$  1%.



7-19. Component Y-PB Timing Adjustment

BOARD	V OUT (F4)
SPEC.	0 ± 10us
TEST	Y out, PB out
ADJUST	VR303 (F-1)
INPUT	
MODE	Play
TAPE	VFM3680KM 18min to 22min
M.EQ	WFM

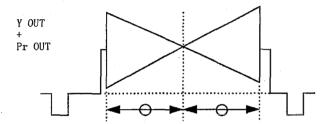
- 1. Set the WFM in the YC timing measurement mode.
- 2. Adjust VR303 so that the cross point of envelope is at center.



7-20. Component Y-PR Timing Adjustment

-	iajastificiit
BOARD	V OUT (F4)
SPEC.	0 ± 10us
TEST	Y out, PR out
ADJUST	VR302 (G-1)
INPUT	
MODE	Play
TAPE	VFM3680KM 18min to 22min
M.EQ	WFM

- 1. Set the WFM in the YC timing measurement mode.
- 2. Adjust VR302 so that the cross point of envelope is at center.

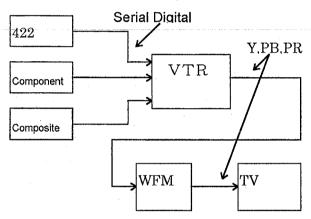


## 8. V IN P.C.Board

8-1. Preparation for Video In Adjustment

· F	ajustinent .
BOARD	V IN (F6)
SPEC.	
TEST	
ADJUST	
INPUT	
MODE	
TAPE	
M.EQ	

- 1. Connect the equipment as shown in figure.
- 2. V IN P.C.Board adjustment should be performed after V out P.C.Board adjustment.



8-2. 13.5MHz VCO Adjustment

BOARD	V IN (F6)
SPEC.	0 ± 0.1V
TEST	TP553
ADJUST	VL551 (F-3), VR552 (F-2)
INPUT	ANALOG Y PB PR
MODE	EE
TAPE	
M.EQ	Oscilloscope

- 1. Set VR552 to the center.
- 2. Adjust VL552 so that the DC Voltage is 0  $\pm$  0.1V.
  - \* First, turn VL551 CCW.

8-3. Component Y Level Adjustment

	10110111
BOARD	V IN (F6)
SPEC.	$V1=0 \pm 7 \text{mV} V2=700 \pm 7 \text{mV}$
TEST	Y out
ADJUST	VR652 (C-2), VR651 (C-2)
INPUT	ANALOG Y PB PR 100% color bar
MODE	EE
TAPE	
M.EQ	WFM

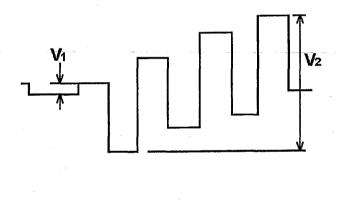
- 1. Adjust VR652 so that the V1 is 0V  $\pm$  7mV.
- 2. Adjust VR651 so that the V2 is  $700 \text{mV} \pm 7 \text{mV}$ .

V<sub>1</sub> V<sub>2</sub> V<sub>2</sub>

8-4. Component PB Level Adjustment

V IN (F6)
$V1=0 \pm 7 \text{mV } V2=700 \pm 7 \text{mV}$
PB out
VR703 (A-1), VR702 (B-2)
ANALOG Y PB PR 100% color bar
EE
WFM

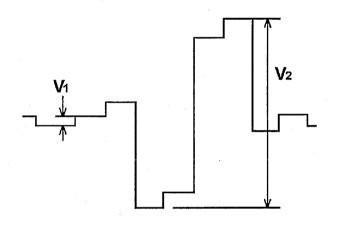
- 1. Adjust VR703 so that the V1 is  $0 \pm 7$ mV.
- 2. Adjust VR702 so that the V2 is 700  $\pm$  7mV.



8-5. Component PR Level Adjustment

/ tajasanene	
BOARD	V IN (F6)
SPEC.	$V1=0 \pm 7 \text{mV} V2=700 \pm 7 \text{mV}$
TEST	PR out
ADJUST	VR753 (A-1), VR752 (B-1)
INPUT	ANALOG Y PB PR 100% color bar
MODE	EE
TAPE	
M.EQ	WFM .

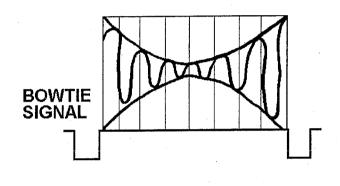
- 1. Adjust VR753 so that the V1 is 0  $\pm$  7mV.
- 2. Adjust VR752 so that the V2 is 700  $\pm$  7mV.



8-6. Component YC Timing Adjustment

BOARD	V IN (F6)
SPEC.	0 ± 10us
TEST	Y,PB,PR out
ADJUST	PB TIM VR701 (B-2), PR-TIM VR751 (B-1)
INPUT	ANALOG Y PB PR BOWTIE
MODE	EE
TAPE	
M.EQ	WFM

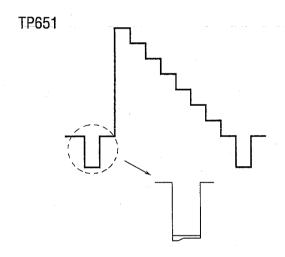
- 1. Adjust VR701 so that the Y/PB timing is correct.
- 2. Adjust VR751 so that the Y/PR timing is correct.

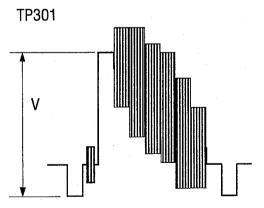


8-7. Composite Input Level Adjustment

Aujustinent	
BOARD	V IN (F6)
SPEC.	V=1.6 ± 0.02V
TEST	TP651, TP301
ADJUST	VR301 (I-2), VR251(I-3)
INPUT	COMPOSITE 100% color bar
MODE	EE
TAPE	-
M.EQ	Oscilloscope

- 1. Observe TP651 and adjust VR301 at the point where the sync tip just begin to saturate.
- 2. Adjust VR251 so that the voltage at TP301 is  $1.6 \pm 0.02$ V.

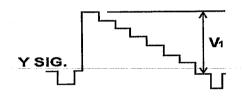




8-8. Composite Y Level Adjustment

	ajaounone
BOARD	V IN (F6)
SPEC.	V1=700 ± 7mV
TEST	Y out
ADJUST	VR352 (I-1)
INPUT	COMPOSITE 100% color bar
MODE	EE
TAPE	
M.EQ	WFM

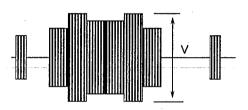
Adjust VR352 so that the V1 is 700  $\pm$  7mV.



8-9. Composite Color Level Adjustment

	Madinone
BOARD	V IN (F6)
SPEC.	500 ± 20mVp-p
TEST	TP451
ADJUST	VR351 (I-1)
INPUT	COMPOSITE 100% color bar
MODE	EE
TAPE	
M.EQ	Oscilloscope

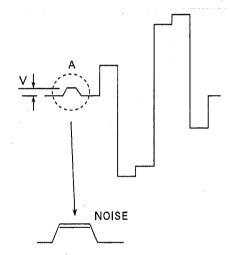
1. Adjust VR360 so that the V is 500  $\pm$  20mVppp.



8-10. Composite Color Demodulation Adjustment

BOARD	V IN (F6)
SPEC.	
TEST	TP401
ADJUST	VR408(H-2), VR409(G-2)
INPUT	COMPOSITE 100% color bar
MODE	EE
TAPE	
M.EQ	Oscilloscope

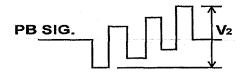
- 1. Adjust VR409 so that the waveform is as shown in figure (no double image).
- 2. Adjust VR408 so that the noise portion is positioned on the top of A portion as shown in figure.



8-11. Composite PB Level Adjustment

Adjustinent	
BOARD	V IN (F6)
SPEC.	V2=700 ± 7mV
TEST	PB out
ADJUST	VR460 (F-1)
INPUT	COMPOSITE 100% color bar
MODE	EE
TAPE	
M.EQ	WFM

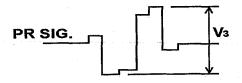
1. Adjust VR460 so that the V2 is 700mV  $\pm$  7mV.



8-12. Composite PR Level Adjustment

7 (0) 0001110110	
BOARD	V IN (F6)
SPEC.	V3=700 ± 7mV
TEST	PR out
ADJUST	VR464 (F-1)
INPUT	COMPOSITE 100% color bar
MODE	EE
TAPE	
M.EQ	WFM

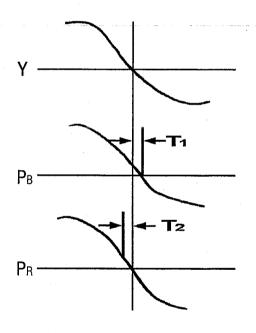
1. Adjust VR464 so that the V3 is 700mV  $\pm$  7mV.



8-13. Composite YC Timing Adjustment

Adjustificit	
BOARD	V IN (F6)
SPEC.	T1=0 ± 10nsec T2=0 ± 10nsec
TEST	Y PB PR out
ADJUST	PB TIM:VR459(G-2), PR TIM VR463(F-1)
INPUT	PULSE & BAR
MODE	EE
TAPE	
M.EQ	WFM

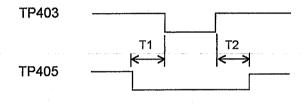
- 1. Set the WFM in the DIFF MODE.
- 2. Observe the MOD 12.5T portion.
- 3. Adjust VR459 so that the T1 is 0  $\pm$  10us.
- 4. Adjust VR463 so that the T2 is 0  $\pm$  10us.



8-14. Composite SCH Detection Adjustment

7 (4) 40 6110116	
V IN (F6)	
T1-T2=± 0.5mS	
TP403, TP405	
VR407 (H-1)	
COMPOSITE 100% color bar	
EE	
-	
Oscilloscope	

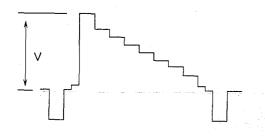
1. Adjust VR407 so that T1=T2 as shown in figure.



8-15. Y Level (Y/C) Adjustment

0 10. 1	Ector (170) Majacinione
BOARD	V IN (F6)
SPEC.	V=700 ± 7mV
TEST	Y out
ADJUST	VR354
INPUT	S-VIDEO
MODE	EE
TAPE	
M.EQ	WFM

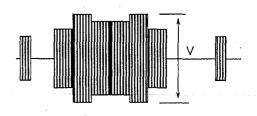
1. Adjust VR354 so that the V is 700  $\pm$  7mV.



8-16. Color Level Adjustment

V IN (F6)
V=500± 20mVp-p
TP451
VR353 (H-2)
S-VIDEO 100 % color bar
EE
Oscilloscope

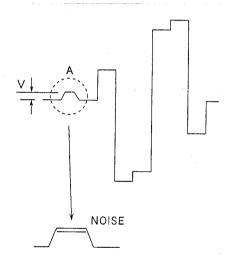
1. Adjust VR353 so that the V is 500  $\pm$  20mV.



8-17. YC Color Demodulation Adjustment

Aujustment	
BOARD	V IN (F6)
SPEC.	
TEST	TP401
ADJUST	VR410 (G-2), VR409 (G-2)
INPUT	S-VIDEO 100% color bar
MODE	EE
TAPE	
M.EQ	WFM

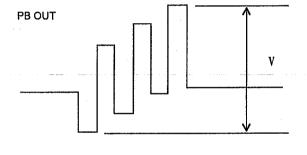
- 1. Adjust VR409 so that the waveform is as shown in figure (no double image).
- 2. Adjust VR410 so that the noise portion is positioned on the top of A portion as shown in figure.



8-18. PB Level Adjustment

BOARD	V IN (F6)
SPEC.	V=700 ± 7mV
TEST	PB out
ADJUST	VR462 (F-1)
INPUT	S-VIDEO 100% color bar
MODE	EE
TAPE	
M.EQ	WFM

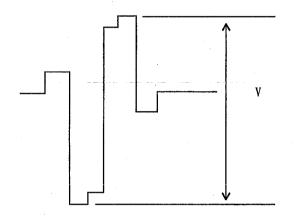
1. Adjust VR462 so that the V is 700 ± 7mV.



8-19. PR Level Adjustment

0-10. 1	it Ecver Aujustinent
BOARD	V IN (F6)
SPEC.	V=700 ± 7mV
TEST	PR out
ADJUST	VR466
INPUT	S-VIDEO 100% color bar
MODE	EE
TAPE	
M.EQ	WFM

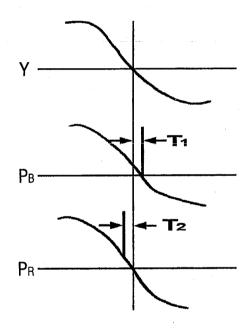
1. Adjust VR466 so that the V is 700  $\pm$  7mV.



8-20. YC Timing (Y/C) Adjustment

BOARD	V IN (F6)
SPEC.	T1=0 ± 10us T2=0 ± 10us
TEST	Y PB PR out
ADJUST	PB TIM=VR461, PR TIM VR465
INPUT	S-VIDEO 100 % PULSE & BAR
MODE	EE
TAPE	
M.EQ	WFM

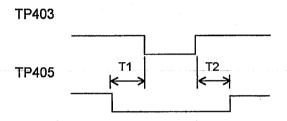
- 1. Set the WFM in the DIFF MODE.
- 2. Observe the MOD 12.5T portion.
- 3. Adjust VR461 so that the T1 is 0  $\pm$  10us.
- 4. Adjust VR465 so that the T2 is 0  $\pm$  10us.



8-21. YC SCH Detection Adjustment

<u> </u>	<u> </u>
BOARD	V IN (F6)
SPEC.	T1-T2=± 0.5mS
TEST	TP403, TP405
ADJUST	VR406 (H-1)
INPUT	COMPOSITE 100% color bar
MODE	EE
TAPE	
M.EQ	Oscilloscope

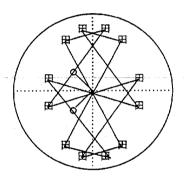
1. Adjust VR406 so that T1=T2 as shown in figure.



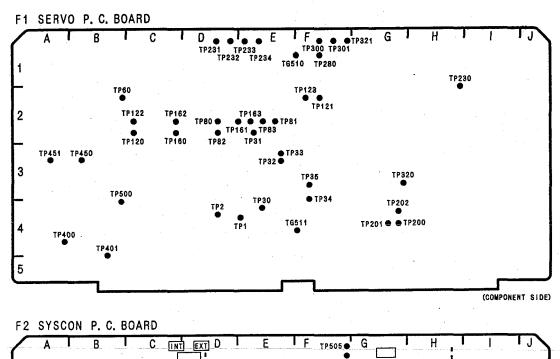
8-22. Vector (Composite)
Adjustment

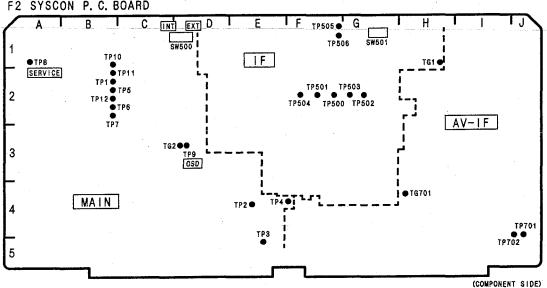
BOARD	V IN (F6)
SPEC.	
TEST	COMPOSITE out
ADJUST	VR409 (G-2)
INPUT	COMPOSITE 75% color bar
MODE	EE
TAPE	
M.EQ	VECTOR SCOPE

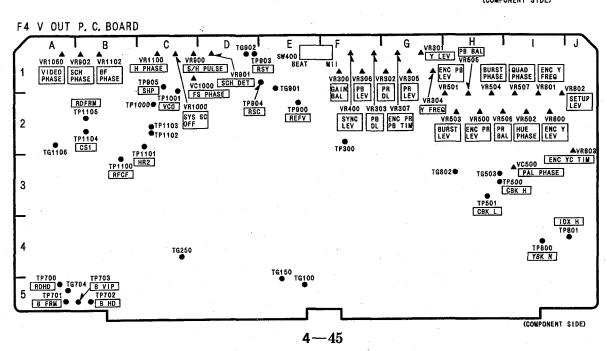
1. Adjust VR409 so that the each dot is in 田 mark.

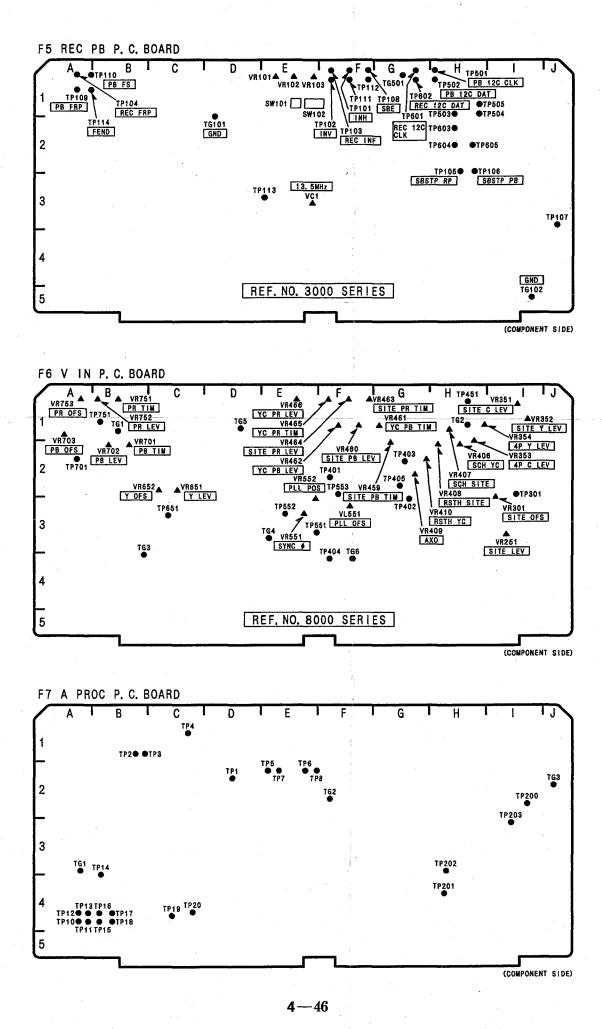


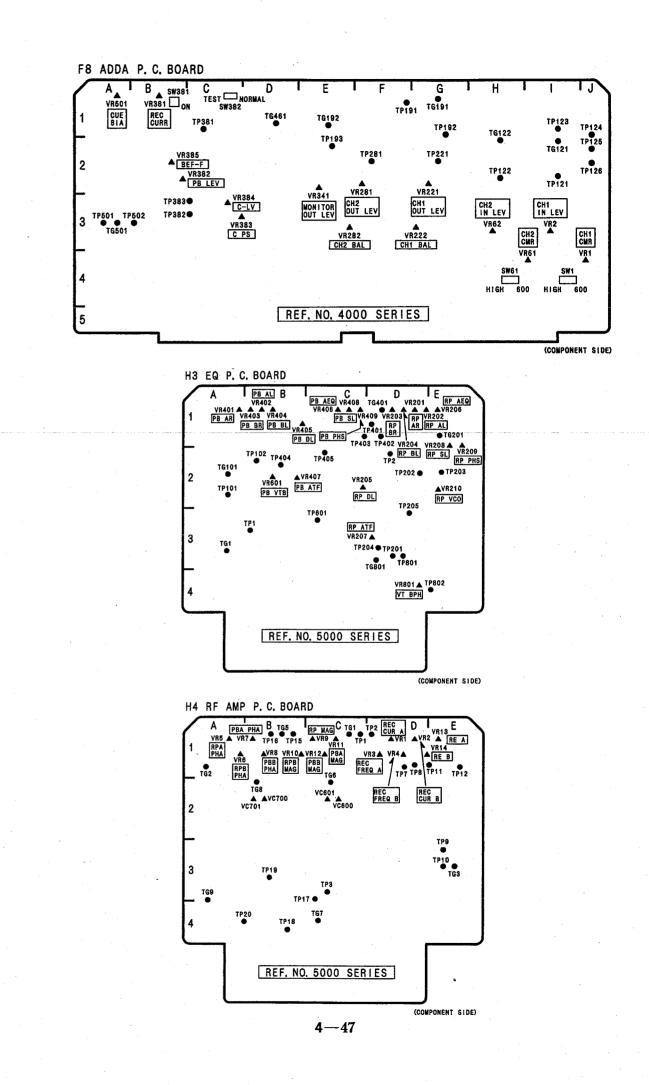
### **LOCATION OF TEST POINTS & CONTROLS**











# EXPLODED VIEWS & REPLACEMENT PARTS LIST

#### Note:

- 1. \*Be sure to make your orders of replacement parts according to this list.
- Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.
- 3. The P.C. Board units marked with "" shown below the main assembled parts.
- 4. The parts marked with © on the exploded view show the electric parts.
- IMPORTANT SAFETY NOTICE
   Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.
- 6. The marking (RTL) indicates the retention time is limited for this item.

  After the discontinuation of this assembly in production, it will no longer be available.

<<Abbreviations for part>>

### <NAME>

### <DESCRIPTIONS>

: CERAMIC CAPACITOR C. CAPACITOR CH: CERAMIC CHIP CAPACITOR C. CAPACITOR : ELECTROLYTIC CAPACITOR E. CAPACITOR G. CAPACITOR : GLASS CAPACITOR : MICA CAPACITOR M. CAPACITOR : PLASTIC FILM CAPACITOR P. CAPACITOR S. CAPACITOR : SEMI-CONDUCTOR CAPACITOR T. CAPACITOR : TANTALUM CAPACITOR : TRIMMER TRIMMER C. RESISTOR : CARBON RESISTOR

C. RESISTOR : CARBON RESISTOR
F. RESISTOR : FUSE RESISTOR
M. RESISTOR : METAL OXSIDE RESISTOR
M. RESISTOR : METAL OXSIDE CHIP RESISTOR
S. RESISTOR : SOLID RESISTOR
V. RESISTOR : VARIABLE RESISTOR
W. RESISTOR : WIRE WOUND RESISTOR

COMBI. TR-R

COMBI. R-R

COMBI. C-R

COMBI. C-R

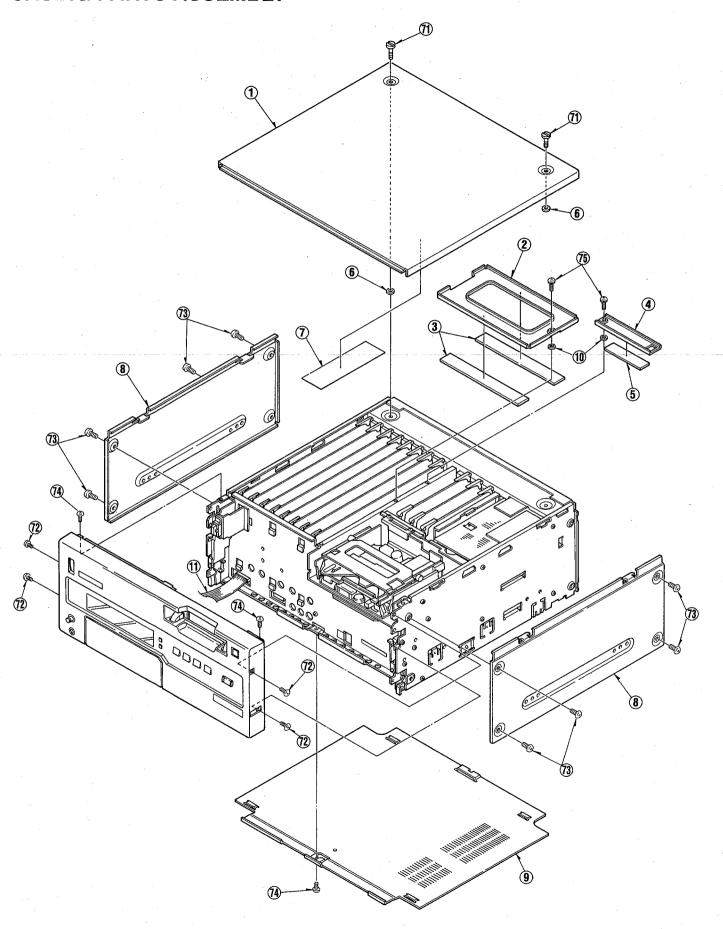
COMBI. C-R-R

P.C. BOARD : PRINTED CIRCUIT BOARD W/COMPONENT : WITH COMPONENT

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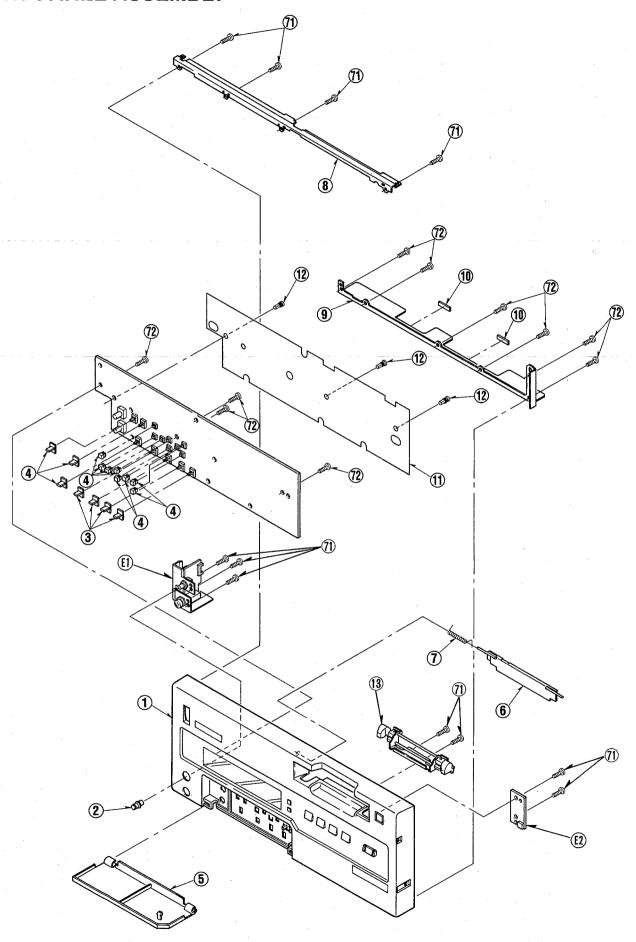
### **CASING PARTS ASSEMBLY**



# MECHANICAL REPLACEMENT PARTS LIST CASING PARTS ASSEMBLY

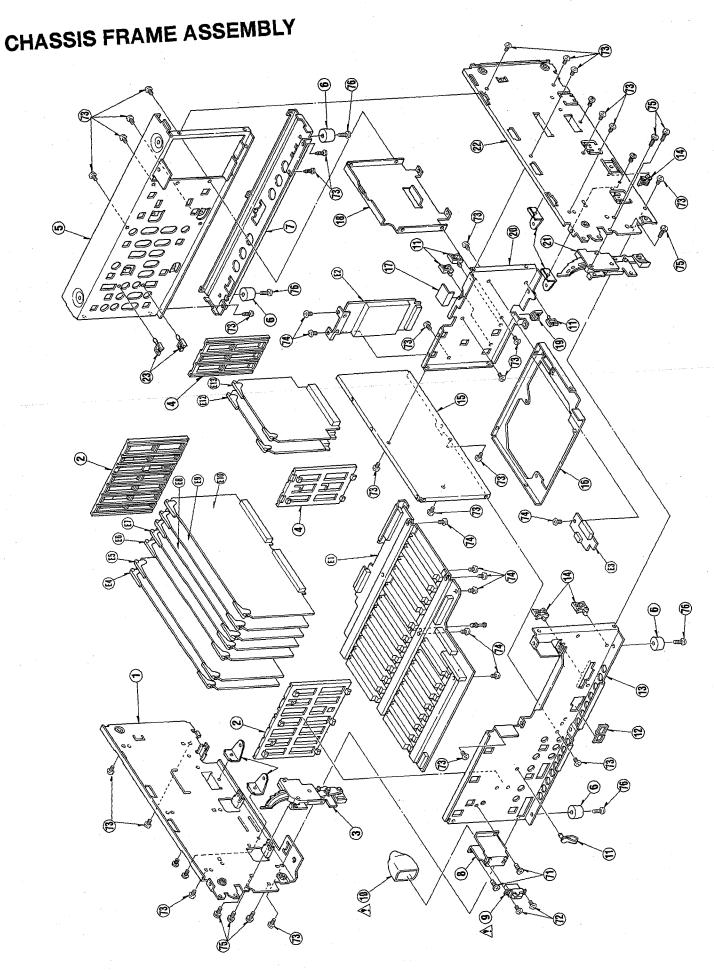
			$\Box$	D	Ref. No.	Part No.	Part Name & Description	Do n	Remarks
Ref. No.	Part No.	Part Name & DescriptionP	'cs	Remarks	Kel. No.	Part No.	rart Name & Description	res	KellaTKs
1		TOP PANEL	1						
	VMP4884	P. C. BOARD PLATE L	1						
3	VMX2511	P. C. BOARD RUBBER GUSHION L	2				•		
		P. C. BOARD PLATE S	1						
	VMX2512		1						
6	VMX2510	SPAGER	2		L	.,			
7	VMZ2325	TOP PANEL BARRIER	1						
8	VGM1271	SIDE PANEL	2						
9	VKU0514 VMX2582	BOTTOM PLATE WASHER	1						
12 13.		GUSHION	1						
14		GASKET	7						
15	VMT0817	GASKET	3						
10	VMX1558	WASHER	2						
11	VEE9641	FRONT CABLE	1						
71		SCREW	2						
72	XSB3+8FZS	SCREW	8						
73		SCREW	8						
74	XTV3+6F	SCREW	3					-	
75	XYN3+K8	SCREW	2				, , , , , , , , , , , , , , , , , , , ,		
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### FRONT PANEL ASSEMBLY



FRONT PANEL ASSEMBLY

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
			1	1				乚	
1	VYP6406	UPPER FRONT PANEL 1 U.	1	FOR AJ-D650E					1
1	VYP6408	UPPER FRONT PANEL 1 U.	1	FOR AJ-D640E				Г	
2	VGU5334	LEVEL VR KNOB	1			1			
-	VOLCETC	SLIDE SW KNOB	7		<b>—</b>	<del> </del>		┢	
3	VGU6516	SLIDE ST KNUB						-	<del>                                     </del>
4	VGU7459	TACT SW KNOB	8			ļ		-	
5	VK₩2668	FRONT DOOR	2					L	
6	VKF2688	BLINDER PANEL	1		1	1		L	
7	VMB2923	BLINDER SPRING	1					[	
8	VMP4864	SUPPORT ANGLE (UPPER)	1					$\overline{}$	
	VMP5240	SUPPORT ANGLE (LOWER)	+		<u></u>	<del> </del>		-	
9	VMP5240	SUPPORT ANGLE (LOWER)			ļ	<u> </u>		<del> </del>	
	VMT0800	GASKET	2					⊢	<b></b>
	VMZ2651	INSULATION SHEET	1					<u> </u>	
12	VJF0108	SPACER	3	·				<u>_</u>	
71	XTV3+8G	SCREW	11					ĺ	
72		SCREW	10					Г	
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E2		EJECT P. G. BOARD	1					<u></u>	
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**CHASSIS FRAME ASSEMBLY** 

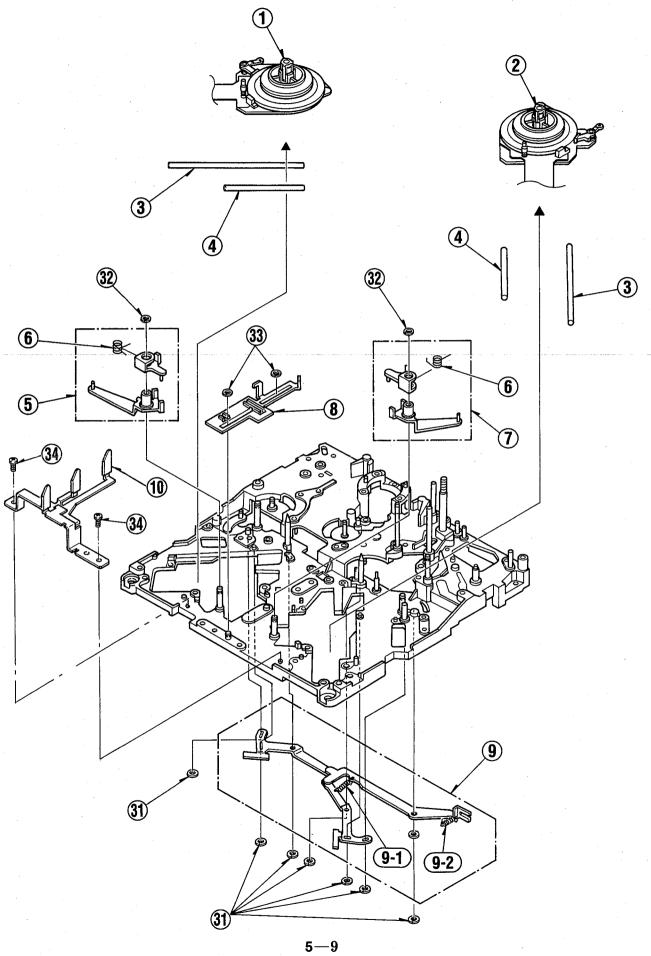
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pes	Remarks
Rez. No.	Ture no.								
1	VMP4871	LEFT SIDE FRAME	1						
		P. C. BOARD GUIDE RAIL A	2						
		P. C. BOARD GUIDE RAIL B			<del></del>				
			2		L				
		REAR FRAME	1		<u></u>			_	
		FPPT	4					-	<u>.</u>
7	VMP4878	BOTTOM FRAME	1		Ī				
	VMP4881	SW BRACKET	- 1						_
		POWER SWITCH	1		F				-
			1					-	
		SW COVER		<u></u>					
		M GLAMPER S	4	<u> </u>					
		EDGE HOLDER	1						
13	VMP4876	FRONT FRAME	1	·					
		M CLAMPER L	3				·		
		CENTER FRAME	1.						
		MECHANISM FRAME U.	1		l			$\overline{}$	
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	VMZ1525	FPC BARRIER	1				· · · · · · · · · · · · · · · · · · ·		
		CENTER SUB FRAME	1						
19	VMP5285	BOTTOM FRAME ANGLE	4						
		MIDDLE FRAME	1						i
		SIDE FRAME R	1						
		M GLAMPER M	2						T
			2		<b>—</b>				
		SCREW			l	<u> </u>	<u>-</u>	$\vdash$	<del>                                     </del>
	XTN3+6F	SCREW	2	-,				-	<del> </del>
	XTV3+6F		27			ļ		<u> </u>	
74	XTV3+6FR	SCREW	9					<u> </u>	
	XYNV3+K12S	SCREW	4					L	
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	<del></del>	HOTHER B & BOARD	1		<b> </b>			-	
E1		MOTHER P. C. BOARD			<u> </u>				
E2	L	HEAD BUFF P. G. BOARD	1					-	
E3	l	AC HEAD IF P. C. BOARD	1					_	
E4		F1 SERVO P. C. BOARD	1						
E5	I	F2 SYSCON P. C. BOARD	1						
E6		F4 V OUT P. C. BOARD	1						
E7		F5 REC PB P. C. BOARD	1						
	<del> </del>	F6 V IN P. C. BOARD	1		<b></b>	<del> </del>			
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E9		F7 A PROC P. C. BOARD	1					-	
E10	l	F8 ADDA GUE P. C. BOARD	1					<u> </u>	
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E12		E3 EQ P. G. BOARD	1						
E13		H4 RF AMP P. C. BOARD	1						
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# **REAR PANEL ASSEMBLY** 6 **A1** 2 75) **(5**) (II) **16**♠ **15** 🛕 13 🛕 12/1 **(7)** (E5) <u>(A</u> <u>A</u> 10 <u>A</u> 9

**REAR PANEL ASSEMBLY** 

		LL AGGLIVII			D. C. N.	David No.	Part Name & Description	D	Remarks
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	PCS	, remarks
<u>Δ</u> 1	VRF0190	FAN MOTOR	1					┢	
2	VHN0063	NYLON NUT			<b></b>			<del> </del>	
	VMX0835	SPACER	2					<del> </del>	
	VJH0975	JACK PANEL	1					<del> </del>	
5		AC CORD HOOK	- <u>†</u>					Г	1
	VMP5032	OPTION PANEL	2	***				Г	
		POWER SUPPLY CASE A	1						
8		FAN MOTOR	1						
<b>∆</b> 9	VMZ2502	SHIELD SHEET A	1		<del></del>				
<b>∆</b> 10	VMZ2503	SHIELD SHEET B	1						
	VSC4388	POWER SUPPLY CASE B	1					П	
<b>∆</b> 12	VMZ1252	AC INLET COVER	1.					П	
13 13 13 13 13 13 13 13 13 13 13 13 13 1	VJP0083	AC INLET	1						
	VMP4889	AC INLET RACKET	1					Г	
		FUSE	1						
<b>1</b> 16 16 16 16 16 16 16 16 16 16 16 16 16		FUSE HOLDER	1						
	VJF0285	M CLAMPER S	1				-		
		SCREW	-1						
	XSN26+6FZ	SCREW	8						
73	XSN4+35FGS	SCREW	2					Ĺ	
74	XTN26+6FFZ	SCREW	1					Ĺ	
		SCREW	5					Ĺ	
76	XTV3+6FFZ	SCREW	_1					Ĺ	
77	XTV3+6FR	SCREW	7					Ĺ	
		SCREW	2					L	
		SCREW	10					L	
		SCREW	1					_	
81 .	XYNV4+K35FCS	SCREW	- 2					<u> </u>	
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E1		V/S JACK P. G. BOARD	1					<u> </u>	
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E3		A JACK P. C. BOARD	1					<u> </u>	
<b>⚠ E4</b>		POWER (1) P. C. BOARD	1				,		
<b>1</b> E5		POWER (2) P. C. BOARD	1						
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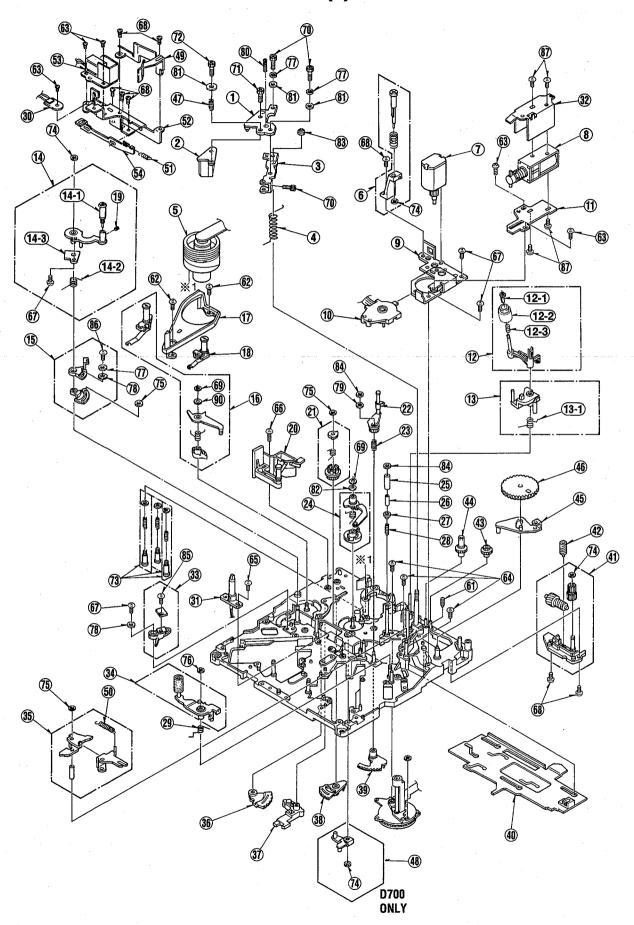
## MECHANICAL CHASSIS ASSEMBLY (1)



MECHANICAL CHASSIS ASSEMBLY (1)

Ref. No.	Part No.	Part Name & Description	Doc	Remarks	Ref. No.	Part No.	Part Name & Description	cs	Remarks
Kei. No.	rart No.	rart Name & Description	LUS	Relial RS	- Kerrioi	1020 100			
1	VEMO579	S REEL MOTOR U.	1						•
2	VEM0581	T REEL MOTOR U.	1						
3	VMS5923	REEL OUTER RAIL	2						
4	VMS5924	REEL INNER RAIL	2						
5	VXL2589	S BASE DRIVE ARM U.	1						
6	VMB2944	CHARGE SPRING	2						
7	VXL2590	T BASE DRIVE ARM U.	1					_	
8	VXA5625	SLIDE ROD U.	1						
9	VXL2597	M STOPPER DRIVE ARM U.	1				` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	_	
9-1	VMB2955	M STOPPER SPRING (1)	1						
9-2	VMB3017	M STOPPER SPRING (2)	1					_	
10		L-M BRAKE RELEASE ANGLE U.						_	
31	VMX1061	CUT WASHER	7						
32	VMX1079	WASHER	2						
33	VMX0967	WASHER	2						
34	XQN2+CF3	SCREW	2						
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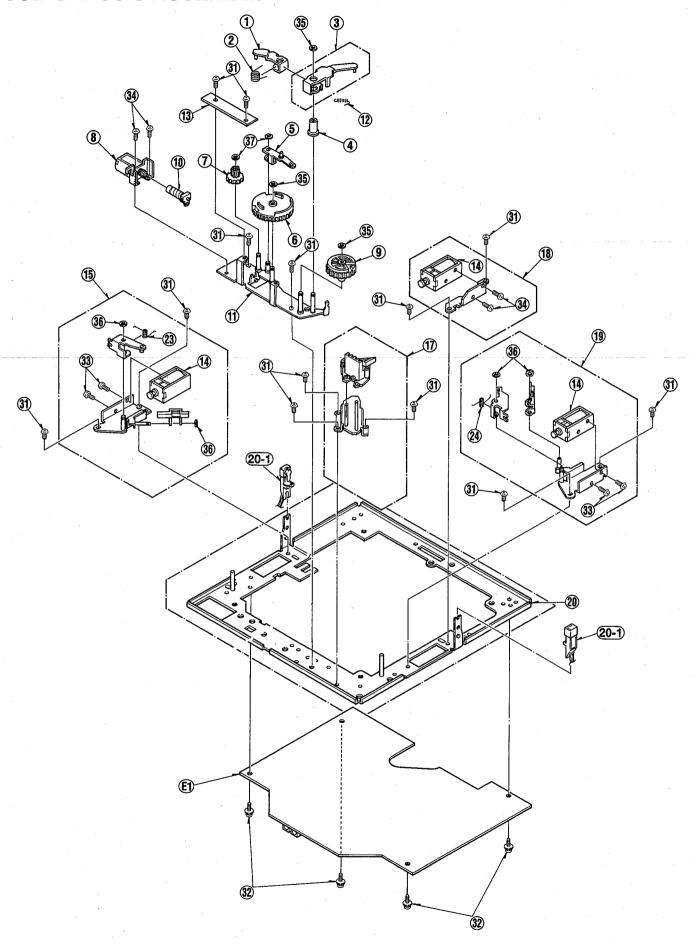
### **MECHANICAL CHASSIS ASSEMBLY (2)**



MECHANICAL CHASSIS ASSEMBLY (2)

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	LOUIPEE:	4 /0 UEAD DAGE /4\1/	1	75	VMX1061	CUT WASHER	3	
	VXA5554	A/G HEAD BASE (1)U	1	76	VMX1001	WASHER	1	
<u> </u>	VBR0301	A/C HEAD	1	77	XWA2B	WASHER	3	
3	VXA5555	A/C HEAD BASE (2)U		78	XWE2	WASHER	1	
4	VMB2935	A/C HEAD HIGHT SPRING	1	79	XWE16VW	WASHER	1	
5	VEG1337	CYLINDER UNIT	1		XXE2A6FP	HEX. SCREW	<del>                                     </del>	
6	VMD2581	EMARGENCY SHAFT HOLDER	1	80			3	
7	VEM0584	LOADING MOTOR (1) U	1	81	XWG2	WASHER	1	
8	VSJ0217	PINCH SOLENOID	1	82	XWGV15Z32G	WASHER		
9	VXA5561	MOTOR ANGLE U	1	83	VHD0045	NYLON NUT	1	
10	VES0814	MODE SW U	1	84	VHN0312	T3 POST NUT	2	
11	VMA9376	PINCH SOLENOID BASE	1	85	XQN2+AG4	SCREW	1	
12	VXL2693	CLEANING ARM U	1	86	XQN2+AJ5	SCREW	- 1	
12-1	VMX2150	ROLLER HOLDER	1	87	XQN2+A15	SCREW	4	
12-2	VXP1326	CLEANER ROLLER UNIT	1					
12-3	VMB1677	P9 POST SPRING	1					
13	VXL2707	T2 ARM U.	1					
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13-1	VMB2932	T2 ARM SPRING	1	L <del></del>			╁	
14	VXL2734	TENSION ARM U.		<b> </b>			+	
14-1	VXP1761	TENSION ROLLER	1	l——	+		$\vdash$	<del> </del>
14-2	VMB2931	TENSION LEG SPRING	1	<del> </del>		<del> </del>	+-	<del> </del>
14-3	VXA5853	MAGNET HOLDER U	1		<del> </del>		+-	
15	VXA5791	TENSION REG. SPRING HOOK U			<u> </u>		$\vdash$	
16	VXL2709	S LOADING ARM U	1			<u> </u>	₩	
17	VMD2533	LOADING RAIL	1			<u> </u>	<u> </u>	
18	VXA5852	T1 BOAT U	1				$\perp$	
19	VHD0561	HEX. SCREW	1			5.1	L	
20	VXA5553	S POST BASE U	1				L	
21	VXP1683	T4 CONNECTION GEAR U	1				Ι	
22	VXL2687	T4 ARM U.	1					
23	VMB2950	T4 THRUST SPRING	<del>   </del>	l —————	<del> </del>		1	
		T LOADING ARM U.	1		·		†	
24	VXL2711	L	1	[ <del> </del>		· · · · · · · · · · · · · · · · · · ·	+-	
25	VMS5906	T3 UPPER FRANGE	1		+	<del> </del>	+	
26	VMS5905	T3 SLEAVE					+	
27	VMS5904	T3 LOWER FRANGE	1		<del> </del>	<del> </del>	+	
28	VMB2929	T3 SPRING	1			ļ	+	-
29	V#B2933	PINCH RELEASE SPRING	1	l			+	
30	VEK7716	DEW SENSOR	1	<b> </b>	<b>_</b>			
31	VEK7691	LED HOLDER U.	1		1		$\vdash$	
32	VMA9411	PINCH SOLENOID ANGLE	1	[ <u> </u>	1		ـــ	
33	VXA5820	TENSION SENSOR U.	1				1	
34	VXL2684	PINCH ARM U.	1				丄	
35	VXL2588	PINCH GUIDE ARM U	1				$\perp$	
36	VXA5570	T SECTOR GEAR U	1					
37	VXL2582	TENSION REG. GUIDE ARM U	i	l	1	1	П	
38	VXL2582 VXA5567	S SECTOR GEAR U	1	11	1		1	
			-	<del> </del>	<del>                                     </del>	<u> </u>	+-	
39	VXA5564	T4 SECTOR GEAR U		l <del> </del>	1		+	
40	VXA5563	MAIN ROD U	1	l <del> </del>			+	
41	VXA5627	THRUST SHIFT HOLDER U	1 1		<del>- </del>		+-	
42	VDG1166	MOTOR WORM GEAR	1				+	<u> </u>
43	VDG1187	MOTOR EMARGENCY GEAR B	1				┼	
44	VDG1186	MOTOR EMARGENCY GEAR A	1				4_	
45	VXL2591	MAIN CAM ARM U	1	l I			4	<u> </u>
46	VDG1168	MAIN CAM GEAR	1	<u> </u>			1_	
47	VMB2937	A/G HEAD ADJUST SPRING	1				_	
48	VXL2600	EJECT ARM U	1					
49	VXA5770	T1 GUIDE U.	1	1	1			
50	VMB2934	SPRING	1	1	1		Γ	
51	VMB3051	CLEANER RETURN SPRING	1	1	<u> </u>		1	
	VXA5768	CLEANER BASE 1 U.	1				T	<u> </u>
52				l <del> </del>			T	
53	VXA5769	CLEANER SOLENOID U.		11			+	<del> </del>
54	VMM0415	CLEANER INTERLOCK	1 1				+	<del> </del>
61	VHD0356	SCREW	1	<b>∤</b> ├──	<del> </del>		+	
62	XQN2+A3	SCREW	2	<b>                                     </b>		<u> </u>	+	<del> </del>
63	XQN2+A2	SCREW	5	l			-	
64	XQN2+A35FZ	SCREW	3	<b> </b>			1	<u> </u>
65	XQN2+AM2	SCREW	1	<u> </u>	<u> </u>	<u> </u>	1	
66	XQN2+AM4	SCREW	1	I L				
67	XQN2+GF3	SCREW	4				L	
68	XQN2+CF4	SCREW	8	1				
69	XUG12FP	E-RING	2	1	1			
70	XVE2B4FZ	SCREW	3	1			T	T
71	XVE2B4F2 XVE2B6FP	SCREW	1	1	1		$\top$	
	XVE2B0FP XVE2B12FP	SCREW	1	11			T	
72			3	<del>   </del>	<del></del>		†	
73	VXQ0439	CYLINDER SCREW U.		11	+		+-	<del> </del>
	ı	I		1 L			1	<u> </u>

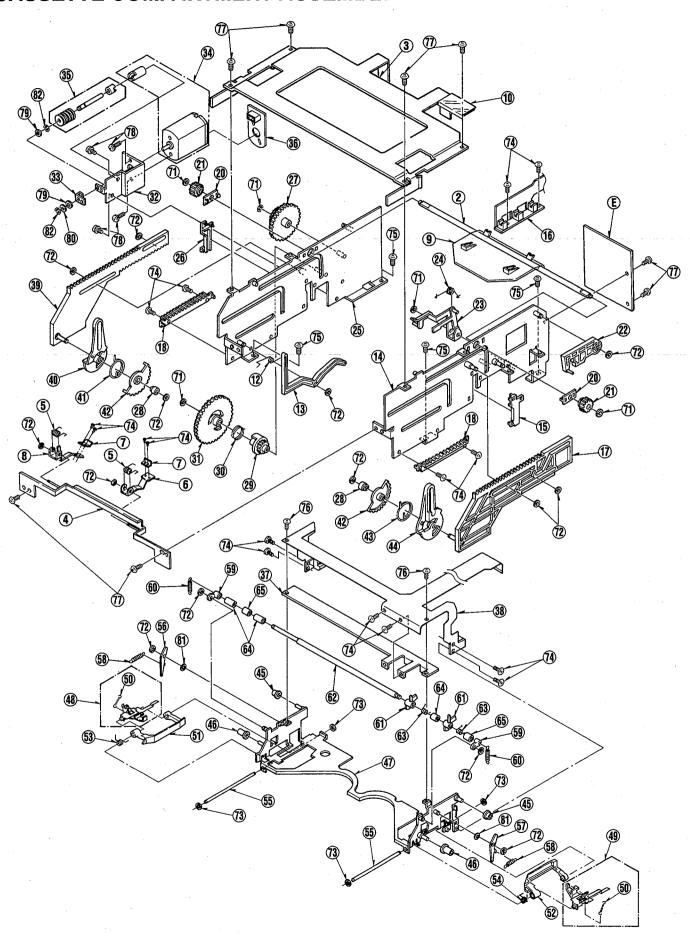
### **SUB CHASSIS ASSEMBLY**



SUB CHASSIS ASSEMBLY

VMB3018 MIC DRIVE SPRING 1	Ref. No.	Tart no.	Part Name & Description Po	s Remarks	Ref. No.	Part No.	Part Name & Description	$\neg$	Remarks
VWB5018   MIC DRIVE ARM GD U. 1   1		100 2050	NIO DDIVE ADM (A) II					$\vdash$	
VXL2657	1	VXLZ656	MIG DRIVE CODING					$\vdash$	
VODI 1/29   WIC DRIVE ARM BOSS   1	2		MIG DRIVE APM (P) II					$\vdash$	
VX.2513   REEL DRIVE ARM U.   1	3		MIC DRIVE ARM (D) U.					$\vdash$	
VDG1192   REEL DRIVE CAM GEAR   1		VVI 2612	DEEL DRIVE ARM DUSS		<u> </u>				
Noti193   REEL DRIVE WORN WHEEL   1					<b> </b>				***
VEMOSS5			DEEL DOINE MUCH MHEEL						
VD61211								П	
VXP1698								$\sqcap$	
1								一	
VHB3019					<b></b>				
VEK7726   REEL DRIVE SENSOR   1			MIC DRIVE RETURN SPRING						
VIXAS575   S-BRAKE SOLENOID BASE U.   1								$\Box$	
5								П	
1							*****	$\Box$	
1								$\sqcap$	
8								П	
9								П	
100   VXK1324   SUB CHASSIS   1							-	$\Box$	
VEK7692   SENSOR HOLDER U.   2								$\Box$	
VMB2945		VFK7692	SENSOR HOLDER U					厂	
VMS2960					<b></b>			$\sqcap$	
1								$\Box$	
VMS2987									
No.									l·
XQN2+CF3   SCREW   14		VSJ0216							
22   XYN3+F5   SCREW   4									
XQN2+A14   SCREW									
XON2+A2   SCREW   4									
35 VMX1079 WASHER 3 3 3 4 5 5 6 VMX0967 WASHER 4 5 7 VMX1548 CUT WASHER 2 2 5 7 VMX1548 CUT WASHER 2 5 7 VMX1548 CUT WASHER 5 VMX1548				4					
36 VMX0967 WASHER 4 37 VMX1548 CUT WASHER 2 2 3 37 VMX1548 CUT WASHER 2 3 37 VMX1548 CUT WASHER 3 4 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				3					
37 VMX1548 CUT WASHER 2				4					
				2					
IT RECH I/F P. C. BOARD 1									
NECH 1/F P. G. BOARD 11									
	:1		MECH L/E P C BOARD	1				П	
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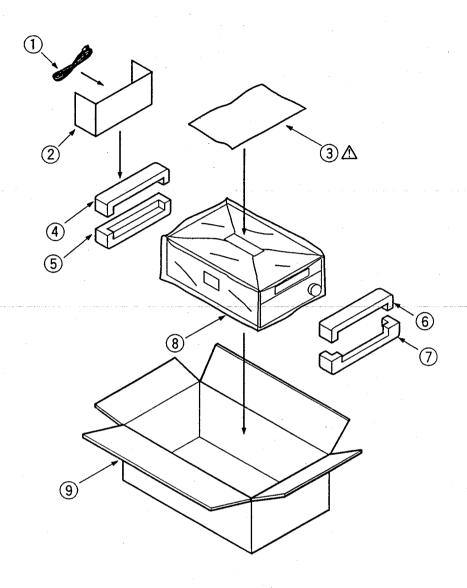
### **CASSETTE COMPARTMENT ASSEMBLY**



**CASSETTE COMPARTMENT ASSEMBLY** 

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.		Part Name & Description	Pes	Remarks
					82	XUG2FP	E-RING	2	
1	VXA5850	CASSETTE COMPARTMENT U	1					<u> </u>	
2	VMS5865	MAIN SHAFT	1						
3	VMA9536	TOP PLATE	1					_	
4	VXA5761	FRONT GUIDE 1 U	1					_	
5	VMB3075	M GUIDE SPRING	2					L_	
6	VML3191	M GUIDE LEVER R	1			<u> </u>			
7	VML3192	M FRONT GUIDE	2					_	
8		M GUIDE LEVER L	1					<u>L</u>	
		GASSETTE PROTECT PLATE	7					<u>L</u>	
	VMZ2628	CABLE PROTECT SHEET	1					<u> </u>	
	VMB2926	OPENER SPRING	1					<u> </u>	
		BLINDER PANEL OPENER	1					<u>L</u>	
	VXA5764	SIDE PLATE R U	1					<u> </u>	
	VML2A50	SUB RAIL (R)	1					ļ	
	VEK7695	SIDE FLEXIBLE	1						
	VXA5766	MAIN RACK U	1					<u> </u>	
	VDG1156	WIPER RACK	2				· · · · · · · · · · · · · · · · · · ·		
		MAIN SHAFT ANGLE	2					<u> </u>	
	VDQ1155	INTERLOCK GEAR	2					_	
		OPENER DRIVE ARM	1						
	VXL2692	OPENER ANGLE U.	1		]	ļ			
		SPRING	1					-	
	VXA5762	SIDE PLATE L U.	1					<u> </u>	
		SUB RAIL (L)	1					_	ļ
	VDG1158	INTERMEDIATE GEAR	1					_	
		WIPER ROLLER	2		<u></u>			<u> </u>	
	VDG1237	CLUTCH GEAR	1					_	
	VMB2980	CLUTCH SPRING	1						
	VDG1236	WORM WHEEL	1					_	
	VMA9421	MOTOR ANGLE	1						
33	VMD2535	THRUST HOLDER	1					_	
34	VXA5597	MOTOR U.	1					<u>L</u>	
35	VXP1687	WORM SHAFT U.	1					L	
36		MOTOR G. B. A.	1					L	
37		HOLDER PLATE	1	· ·				L	
38	VEK7715	HOLDER FLEXIBLE U.	_					<u></u>	
	VXA5596	MAIN RACK (L) U.	1					L	
40	VML2A49	WIPER ARM L	1						
		WIPER SPRING L	1					<u></u>	
42	VDG1163	WIPER GEAR	2						
43	VMB3013	WIPER SPRING R	1						
44	VML2A52	WIPER ARM R	1						
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2					L	
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2						
47	VXA5757	CASSETTE HOLDER 1 U	1					L	
48	VXA5758	KICK OFF ROD L U	1						
49	VXA5759	KICK OFF ROD R U	1						
50	VMB3064	SLIDE SPRING	2					L	
	VML3194	SIDE GUIDE L	1						
	VML3195	SIDE GUIDE R	1						
53	VMB3061	SIDE GUIDE SPRING L	1					L	
	VMB3062	SIDE GUIDE SPRING R	1					L	
	VMS6108	KICK OFF ROD SHAFT	2						
	VML2A54	KICK OFF ARM L	1						
		KICK OFF ARM R	1						
	VMB2928	KICK OFF SPRING	2						
	VML2A53	CASSETTE HOLDER ARM	2					L	
	VMB2927	CASSETTE HOLDER SPRING	2						
	VMX2525	ML DETECTION ROLLER	2						
	VMS5882	CASSETTE HOLDER SHAFT	1			1		Ī	
		ML DETECTION SPRING	2					Γ	
	VMX2559	CASSETTE PRESSURE ROLLER (2						l	
	VMX2524	CASSETTE PRESSURE ROLLER (1	-						
	VMX0653	CUT WASHER	5					1	
	VMX0967	WASHER	14					Г	
	VMX1061	CUT WASHER	4					_	
	XQN16+A2	SCREW	16					Г	
	XQN2+CF3	SCREW	4				<del></del>	$\vdash$	· · · · · · · · · · · · · · · · · · ·
	XQN2+GF3 XQN16+A25	SCREW	2		<del></del>		·	H	<del> </del>
		SCREW	8					<del> </del>	
	XQN2+A3							$\vdash$	
	XYN2+C3	SCREW	4		ļ	<b></b>			
	XWGV2D5G	WASHER	2	'				├	
	XWGV2Y4G	WASHER	1				<del> </del>		<u> </u>
	XWGV2Z5G	WASHER	2			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<del> </del>	
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### **PACKING PARTS ASSEMBLY**



### **PACKING PARTS ASSEMBLY**

Ref. No.	Part No.	Part Name & DescriptionP	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VJA0774	AG GORD	1					L	
1	VJA0775	AC CORD	1						
2	VPN4305	ACCESSORY PAD	1						
3	VQT6817	OPERATING INSTRUCTIONS	1	FOR AJ-D650E					
3	VQT6820	OPERATING INSTRUCTIONS	1	FOR AJ-D640E				Г	
4	VPN4302	CUSHION UL	1					Γ	
5 .	VPN4304	CUSHION LL	1						
6	VPN4301	CUSHION UR	1						
7	VPN4303	CUSHION LR	1						
8	VPF0673	POLYETHYLENE BAG	1						
9	VPG8822	PACKING CASE	1	FOR AJ-D650E		·			
9 .	VPG8823	PACKING CASE	1	FOR AJ-D640E					
								П	

### **CONTENTS**

Ξ	LECTRICAL REPLACEMENT PARTS LIST	.5-18
	MOTHER (VEP80A11A)	
	F1 SERVO (VEP82105B)	.5-19
	F2 SYSCON (VEP86146E/VEP86146F)	.5-23
	F4 V OUT (VEP83352B)	. 5-27
	F5 REC PB (VEP83353B)	
	F6 V IN (VEP83355B)	.5-36
	F7 A PROC (VEP84292A)	
	F8 ADDA (VEP84293B)	
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	BUFFER AMP (VEP85151A)	.5-52
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	POWER (1) (VEP81074B)	
	POWER (2) (VEP81075B)	
	CARRIGE (VEP80856A)	
	MECH I/F (VEP82214A)	
	MECH I/F SUB (VEP82210A)	
	A JACK (VEP84291A)	
	TC & JACK (VEP80A12A)	
	FRONT CPU (VEP86256A)	
	EJECT (VEP80A09A)	
	HEAD PHONE (VEP80A10A)	
	AC HEAD IF (VEP80991A)	. 5 <b>-</b> 58

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OTHER

### **ELECTRICAL REPLACEMENT PARTS LIST**

Ref. No.	Part No.	Part Name & DescriptionP	cs	Remarks	Ref. No.	Part No.	Part Name & Description	Pes	s Remarks
	VEP80A11A	MOTHER C. B. A.	1	(RTL)				Ļ	
	VEP82105B	F1 SERVO C. B. A.	1	(RTL)				上	
	VEP86146E	F2 SYSCON C. B. A.		(RTL) FOR AJ-D650E				$\vdash$	
	VEP86146F	F2 SYSCON C. B. A.		(RTL) FOR AJ-D640E				├-	
	VEP83352B	F4 V OUT C. B. A.	_1	(RTL)			-		
	VEP83353B	F5 REC PB C. B. A.	1	(RTL)				F	
	VEP83355B	F6 V IN C. B. A.	1	(RTL)					
	VEP84292A	F7 A PROC C. B. A.	1	(RTL)					
	VEP84293B	F8 ADDA C. B. A.	1	(RTL)					
	VEP85048A	H3 EQ C. B. A.	1	(RTL)				-	
•	VEP85049A	H4 AMP C.B.A.	1	(RTL)	<u> </u>			-	
			1	(RTL)					
	-			(RTL)					
		POWER 1 G. B. A.		(RTL)					
				(RTL)					
				(RTL)					
		MECH I/F C. B. A. MECH IF SUB C. B. A.		(RTL)				-	
	VEP84291A	A JACK C. B. A.	1	(RTL)				L	
	VEP80A12A	TC & JACK C. B. A.	1	(RTL)				-	
				(RTL)					
				(RTL)					
				(RTL)					
	VEP80991A	AC HEAD IF C.B.A.	1	(RTL)					
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.		Part Name & Descript	_		
					C165		G. CAPACITOR CH 50V 0.0		1	
	VEP80A11A	MOTHER C, B. A.	1	(RTL)	C166, 67			3U	2	:
					C168, 69		G. CAPACITOR CH 50V O.		_2	
					G170, 71	·	C. CAPACITOR CH 50V 100	_	2	`
	VJS3814	CONNECTOR (FEMALE)	16		C172		C. CAPACITOR CH 50V O.		1	
	VJS3814	CONNECTOR (FEMALE)	_ 2	-	C173, 74	ECEV1EV3300		3U	_2	
	VJP3095	CONNECTOR (MALE)	1		C175		C. CAPACITOR CH 50V O. C			
	VJP3091	CONNECTOR (HALE)	1		C200		C. CAPACITOR CH 50V 470			
	VJP2891A030	CONNECTOR (MALE)	1		G202, 03		C. CAPACITOR CH 50V O.		_2	
	VJP3418A080	CONNECTOR (MALE)	1		G204			70		· · · · · · · · · · · · · · · · · · ·
	VJP2824B003	CONNECTOR (MALE)	_1		G205-07		C. CAPACITOR CH 50V O. C		3	
·	VJP2824B006	CONNECTOR (MALE) 6P	1		C208-10		C. CAPACITOR CH 50V 470		3	
	VJP2824B008	CONNECTOR (MALE)			G211			7U		
	VJS3375B060	CONNECTOR (FEMALE)	2		C212, 13		G. CAPACITOR GH 50V O. C	-	2	<u> </u>
	VJP3080	CONNECTOR (MALE)	1		G214			7U	.1	
	VJP1230T	CONNECTOR (MALE) 3P	1					10	2	
		CONNECTOR (MALE)	1		G218	l	C. CAPACITOR CH 50V 0. C		1	
P036	VJP3090	CONNECTOR (MALE)	1		G230-32		C. CAPACITOR CH 50V 100		3	<del> </del>
							C. CAPACITOR CH 50V 00		4	
		MISGELLANEOUS			G237			70	1	
					C238		C. GAPACITOR CH 50V O. (	_	_1	
	VKG0392	SPACER	2		G239			7U	1	<u></u>
	VMP4868	XLR GUIDE ANGLE (B)	1,				G. GAPAGITOR CH 50V O. C		10	<del></del>
	VMP4886	MOTHER ANGLE (A)	1					2P	2	<u> </u>
	VMP4887	MOTHER ANGLE (B)	1		G260, 61	ECUM1H103KBN	C. CAPACITOR CH 50V O. C	10	2	
	VMP4888	MOTHER ANGLE (C)	1	****	C263-70	ECUM1H103KBN	C. CAPACITOR CH 50V O. C	10	8	
	XYE3+EF8FZ	SCREW	10		C280-86		C. CAPACITOR CH 50V O. C	IU	7	
	XTV26+6F	SCREW	2		G300-02	ECUM1H103KBN	G. CAPACITOR CH 50V O. C	10	3	
					G303	ECEV1CV470Q	E. CAPACITOR CH 16V	7U	1	
					C304-08	ECUM1H103KBN	C. CAPACITOR CH 50V O. C	iu	5	
	VEP82105B	F1 SERVO C. B. A.	1	(RTL)	G309			7U	1	
							C. CAPACITOR CH 50V O. C	10	2	
					G322	<del></del>	C. CAPACITOR CH 50V O.		1	<del> </del>
C1, C2	ECHMINIOSKEN	G. CAPACITOR CH 50V 0.01U	2		G323			ou l	1	<b></b>
		E. CAPACITOR CH 16V 22U	1		G324		C. CAPACITOR CH 50V 680		- <u>:</u>	
					G325, 26			טט	2	
		E. CAPACITOR CH 16V 47U	1						2	
		E. CAPACITOR CH 16V 22U	2		G327, 28				- 1	<u>'</u>
		G. CAPACITOR CH 50V 2200P			G329			טט	<u> </u>	
		G. CAPACITOR CH 50V 0.01U	2		G330		G. CAPACITOR CH 50V 100		_	
		C. CAPACITOR CH SOV 1000P			G331-34		G. CAPACITOR CH 50V O. C	BP BP	2	
		C. CAPACITOR CH 50V 0.01U	2		C335, 36		C. CAPACITOR CH 50V C. CAPACITOR CH 50V O. C			
		C. CAPACITOR CH 50V 100P	1		G337				1	
		C. CAPACITOR CH 50V 0.01U			G340		C. CAPACITOR CH 50V O.		-1	
		G. CAPACITOR CH 50V 2200P	_!		G341	EGA1EXLV101X				
		C. CAPACITOR CH 50V 0.01U	5		G342, 43		C. CAPACITOR CH 50V 0. C	_	2	
		E. CAPACITOR CH 25V 33U	_1		G344		C. CAPACITOR CH 50V 680	_		
		C, CAPACITOR CH 50V 0.01U	3		C345	EGA1EXLV101X			1	
		E. GAPAGITOR CH 16V 10U	_1				C. CAPACITOR CH 50V O.		3	
		C. CAPACITOR CH 50V 0. 033U	2				G. GAPAGITOR CH 50V 0. C		5	
C42, 43	ECUM1H103KBN	G. CAPACITOR CH 50V 0.01U	2		C354	ECUM1H102JCN	C. CAPACITOR CH 50V 100	OP	1	
060, 61	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2		C355		C. CAPACITOR CH 50V 0. C	_	1	
C63-74	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	12		G356	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.	IU 📗	1	
G80, 81	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	2		C357	ECUM1H682KBN	C. CAPACITOR CH 50V 680	)P	1	
C82	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	1		G358	EGA1EXLV101X	E. GAPACITOR 25V 10	עכ	1	
C83	ECUM1H100DCN	C. CAPACITOR CH 50V 10P	1		C359	EGUM1H104ZFN	G. CAPACITOR CH 50V O.	IŲ	1	
		C. CAPACITOR CH 50V 0. 01U	1		C360	ECA1EXLV101X	E. GAPACITOR 25V 10	)U	1	
		E. CAPACITOR CH 25V 33U	2	···	C361		C. CAPACITOR CH 50V O.	IU	1	
		C. CAPACITOR CH 50V 0.01U	ᆿ			EGA1EXLV101X			1	
		C. CAPACITOR CH 50V 10P	1				C. CAPACITOR CH 50V 0. 0		2	
		C. CAPACITOR CH 50V 1000P	2	***				7U	1	
		C. CAPACITOR CH 50V 0. 01U	1				C. CAPACITOR CH 50V 680		<u> </u>	
		E. CAPACITOR CH 25V 33U	2					טיי	1	
		G. CAPACITOR CH 50V 0. 01U	2				C, CAPACITOR CH 50V 0.0		2	
		C. CAPACITOR CH 50V 0.010	2					70	1	
		C. CAPACITOR CH 50V 1000P					C. CAPACITOR CH 50V 680	_	+	
			2					ייי עו	1	
		C. CAPACITOR CH 50V 10P					<del></del>		1	
		C. CAPACITOR CH 50V 0. 01U	1		<u></u>		C. CAPACITOR CH 50V 0. 0	-	-	
		E. CAPACITOR CH 25V 33U	2	· · · · · · · · · · · · · · · · · · ·				<u> </u>	-	
		G. CAPACITOR CH 50V 0.01U	2		C400			וטי	1	
		C. CAPACITOR CH 50V 1000P	2				C. CAPACITOR CH 50V 0. 0		3	
		E. GAPACITOR CH 25V 33U	2				G. CAPACITOR CH 25V O.		3	
0135	ECUMTH103KBN	C. CAPACITOR CH 50V 0.01U	1					U	1	
C160, 61	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	2		C408		G. CAPACITOR CH 50V 0.0	U	1	
0162	ECUM1H103KBN	C, CAPACITOR CH 50V 0.01U	1				C. CAPACITOR CH 50V 0.	U	3	
2163, 64	ECUM1H100DCN	C. CAPACITOR CH 50V 10P	2		C412, 13	ECUM1H103KBN	C. CAPACITOR CH 50V 0.0	U	2	
								_	_	

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Ref. No	. Part No.	Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C414		C. CAPACITOR CH 16V 1U 1	No. Mar. 115	D1, D2		DIODE	2	
G415		G. CAPACITOR CH 50V 1500P 1	<del> </del>	D3, D4	MA8075-H	DIODE	2	
				D30, 31	MA8030	DIODE	2	
C416-18.							1 1	
G419		E. GAPAGITOR CH 50V 4.7U 1		D32	MA8047-H	DIODE		
G420	ECEV1CV100Q	E. CAPACITOR CH 16V 10U 1		D33-35	MA 152K	DIODE	3	
C421	ECUM1H103KBN	G. CAPACITOR CH 50V 0.01U 1		D80-83	MA157	DIODE	4	
G422	ECUM1H331JGN	G. GAPAGITOR CH 50V 330P 1		D120-23	MA157	DIODE	4	
G423		E. CAPACITOR CH 16V 47U 1		D160-63	MA157	DIODE	4	
G424-27		C. CAPACITOR CH 50V 0.01U 4		D200, 01	MA152K	DIODE	2	
				D202	MA8047-H	DIODE	1	
G428, 29		C. CAPACITOR CH 25V 0.1U 2						
G430		C. CAPACITOR CH 50V 0.01U 1		D203	MA152K	DIODE	ᆣ	
G431	ECEV1CV1000	E. CAPACITOR CH 16V 10U 1		D204, 05	MA8047-H	DIODE	2	
G432-34	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U 3	) · · · · · · · · · · · · · · · · · · ·	D206-09	MA152K	DIODE	4	
C450	ECUM1H223KBN	C. CAPACITOR CH 50V 0. 022U 1		D300-02	LN1251CAL	DIODE	3	1
C451, 52		C. CAPACITOR CH 50V 0.01U 2		D320, 21	MA157	DIODE	2	
		C. CAPACITOR CH 25V 0. 047U 2		D340	MA728	DIODE	1	
C453, 54				D341	MA736	DIODE	1	
G455		C. CAPACITOR CH 50V 0. 1U 1		<u></u>			┝┽	
C456		E. CAPACITOR CH 50V 2.2U 1		D342	MA728	DIODE	<del>                                     </del>	<b></b>
G457	ECUM1H104ZFN	G. GAPAGITOR CH 50V 0.1U 1		D343	MA736	DIODE		
C458, 59	EGEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U 2		D344	MA8039-L	DIODE	1	
C460	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U 1		D380	MA728	DIODE	L 1	
C461		G. CAPACITOR CH 25V 0. 047U 1		D381	MA736	DIODE	1	
		G. CAPACITOR CH 50V 4700P 1		D382	MA728	DIODE	1	1
C462			<del>                                     </del>		MA736	DIODE	⊣	
C463		C. CAPACITOR CH 50V 0. 033U 1	ļ	D383			<u>├-</u> ू	ļ <u>.</u>
C464		C. CAPACITOR CH 50V 4700P 1		D400-05	MA738	DIODE	6	
C465	ECUM1H333KBN	C. CAPACITOR CH 50V 0. 033U 1		D406, 07	MA8047-H	DIODE	2	
C466		G. CAPAGITOR CH 50V 4700P 1		D408-13	MA738	DIODE	6	
C467		C. CAPACITOR CH 50V 0. 033U 1		D450	MA152K	DIODE	1	
C468, 69		G. CAPACITOR CH 25V 0. 1U 2		D451-56	MA738	DIODE	6	
				D451-30	MA152K	DIODE	1	<del></del>
G470		C. CAPACITOR CH 50V 0.01U 1					6	
C471		E. GAPACITOR CH 16V 10U 1		D458-63	MA738	DIODE		
G472	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U 1		D510-13	MA701A	DIODE	4	
G473	EGUM1H223KBN	G. GAPAGITOR CH 50V 0. 022U 1		D514-19	MA704A	DIODE	6	
G474, 75		C. CAPACITOR CH 25V 0. 047U 2			1		1	
G476		G. CAPACITOR CH SOV 0.1U 1		FL320, 21	VLF1016A470	FILTER	2	
		E. CAPACITOR CH 50V 2. 2U 2				FILTER	6	
C477, 78				15010-19	11 10 10A470	, ILILA	⊢	
C479		C. CAPACITOR CH 50V 0.1U 1		I	TO 7000 45	1.0	<u> -</u>	<u> </u>
G480		E. CAPACITOR CH 50V 2.2U 1		IC1	TG7WU04F	010	ᆜ	
G481	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U 1		1 G2	UPC4082G2	IC .	1	
G482	ECUM1E473KBN	C. CAPACITOR CH 25V 0. 047U 1		1G3	MC14052BF	10	_1	
C483		C. CAPACITOR CH 50V 4700P 1		1G30	UPC4082G2	16	1	
G484		G. CAPACITOR CH 50V 0. 033U 1		1C31	NJM4580ED	IC	1	
		C. CAPACITOR CH SOV 0.0330 1		1031	AD633JR	IC	1	<u> </u>
C485			<b> </b>				<del>  '</del>	
C486		C. CAPACITOR CH 50V 0. 033U 1		1G33	UPC4082G2	10	<b>├</b> ┆	
C487		C. CAPACITOR CH 50V 4700P 1		1G34	MC74HC74AF	IC	$\perp$ 1	
C488	ECUM1H333KBN	C. CAPACITOR CH 50V 0. 033U 1		1 G35	TC7WOOF	10	1	
C489. 90		C, CAPACITOR CH 25V 0.1U 2		1060, 61	MC74HC08AF	IC .	2	
G491		C. CAPACITOR CH 50V 0.01U 1		1C63-66	MC74HC74AF	IC	4	
<u> </u>				1065 G		10	┪	<b></b>
C492		E. GAPACITOR CH 16V 10U 1					╁	<del> </del>
C493		C. CAPACITOR CH 16V 0.47U 1		1 C68	T74HC191AF	10	닏	<del> </del>
C510	ECUM1H103KBN	G. CAPACITOR CH 50V 0. 01U 1		1 C 6 9	MC74HC32AF	IG	1	ļ
C511	ECEV1CV470Q	E. CAPACITOR CH 16V 47U 1		1070	MC74HC86F	16	$\mathbb{L}^{1}$	
C512, 13		C. CAPACITOR CH 50V 0. 01U 2		I G71	MC74HC04AF	IC	1	
G512, 13		E. CAPACITOR CH 16V 47U 1		1072	MC74HC74AF	IC	1	
				1072	MC74HC11F	10	1	<u> </u>
C515		C. CAPACITOR CH 50V 0.01U 1					<del>⊢</del> .¦	<u> </u>
C516		E. GAPACITOR CH 25V 33U 1		1C74	MC74HC27F	16	╚	
C517-19	ECUM1H103KBN	C. CAPAGITOR CH 50V 0.01U 3			UPC4741G2	IG .	2	
C520	EGEV1EV330Q	E. GAPACITOR CH 25V 33U 1		1 C82	NJM2901M	IC	<u> </u>	
C521		G. CAPACITOR CH 50V 0. 01U 1		1 G83	MC74HC4050F	10	1	
G522, 23		E. GAPACITOR CH 50V 1U 2		I	UPC4741G2	IC	2	
				10120, 21	NJM2901M	IC .	<del>-</del>	
G524		E. CAPACITOR CH 25V 33U 1			·		<del>-</del>	
G525		C. CAPACITOR CH 50V 0.01U 1			UPG474162	10	2	<u> </u>
C526	ECEV1EV330Q	E. CAPACITOR CH 25V 33U 1		10200	ADG408BR .	10	_1	
G527, 28	ECUM1H103KBN	C. GAPACITOR CH 50V 0.01U 2		I G201	AD7896AR	10	1	
C529		E. CAPACITOR CH 25V 33U 1		1G202	AD7943BR	10	1	
C530-32		C. CAPACITOR CH 50V 0.01U 3		1G203	SMP08FS	1C	1	
				10203	MC74HC244AF	IC	-	
C533		E. CAPACITOR CH 10V 33U 1		<u></u>			├-	
C534		C. CAPACITOR CH 50V 0.01U 1		1G205	UPC4082G2	IG	1	
C535	ECEV1EV330Q	E. CAPACITOR CH 25V 33U 1		10207	UPG4082G2	IC	1	
C536	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U 1		IG230	MC68332ACFC2	10	1	
G537		E. CAPACITOR CH 50V 1U 1		10231	TL7705CPSB	IG	1	
C538		E. CAPACITOR CH 25V 33U 1		1G235	VS12280G	10	1	
<b>. .</b>				L	74AC74SJ	IC	2	
		C. CAPACITOR CH 50V 0.01U 1			1	<u> </u>		
C539		C, CAPACITOR CH 50V 0.01U 2	L	10238, 39	TC7WUO4F	IC	2	
	ECUM1H103KBN	G. OAFAGITON GIT GOT G. GTG   2						
C539	ECUM1H103KBN	U. UNFROTTON OIL OUT U. DIG 2		1G240	74AC08SJ	10	1	
C539	ECUM1H103KBN	U. UAFROTTON OF 304 V. 013 2		10240	74AC08SJ	II C		

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Ref. No.	Part No.	Part Name & Description	Pos	Remarks 1	Ref. No.	Part No.	Part Name & Description	Pe	s Remarks
IG241	MC74HC244AF	IC BOOKING	1				TRANSISTOR-RESISTOR	1	
IG260, 61		IG	2			UN2113	TRANSISTOR-RESISTOR	-	<b> </b>
			-					-	
1C262	IDT71321A55	IC	!		QR122	UN2213	TRANSISTOR-RESISTOR		
	SN74S1051NS	IC .	2			UN2113	TRANSISTOR-RESISTOR		
1G265	MC74HC175F	IC	1		QR124	UN2213	TRANSISTOR-RESISTOR	1	
10266	MC74HC164F	IC	1	· Q	QR160	UN2213	TRANSISTOR-RESISTOR	1	
1C267	MC74HC273AF	IC.	1	0	QR161	UN2113	TRANSISTOR-RESISTOR	-1	<u> </u>
10268	MC74HC74AF	IC	1	Q	QR162	UN2213	TRANSISTOR-RESISTOR	1	
10269	MC74HC86F	IC	1	0	QR163	UN2113	TRANSISTOR-RESISTOR	1	
1G280	MC74HCT244AF	IC	1				TRANSISTOR-RESISTOR	1	
10281	MG74HG151F	IC	1				TRANSISTOR-RESISTOR	2	<u> </u>
		l	_					<u> </u>	
1G282	SLA909SF1G	IC	1				TRANSISTOR-RESISTOR	'	
10300	TE7751	IC	1				TRANSISTOR-RESISTOR	<u> </u>	<u> </u>
10301, 02	MC74HC244AF	IC	2	[ Q	2R600		TRANSISTOR-RESISTOR	1	<u> </u>
1C3O3	T74VHCT244F	1G	1	Q	2R601	UN2211	TRANSISTOR-RESISTOR	1	
10304, 05	MC74HC244AF	IC	2						
1G320	SG371025AVFU	ic	1	R	R1-R3	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	3	
10321	MC14053BF	IC	1				M. RESISTOR CH 1/10W 470	1	
10322	MC74HC574AF	IC.	$\frac{1}{1}$				M. RESISTOR CH 1/10W 1K	1	
			1					-	<u> </u>
10323	TC7WU04F	I G					M. RESISTOR CH 1/10W 470	1	
10324	T74VHGU04F	IC	1				M. RESISTOR CH 1/10W 1.5K	1	
10325	74AG74SJ	IC	1				M. RESISTOR CH 1/TOW 56K	1	
10326	MC74HC74AF	IC	1	R	R9, 10	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	2	
10340	TL1451CNS	10	1	R	₹11	ERJ6GEYG563	M. RESISTOR CH 1/10W 56K	1	
10341	UPC393G2	10	1				M. RESISTOR CH 1/10W 10K	2	
1G342	NJM4580ED	IC	1				M. RESISTOR CH 1/10W 270K	1	
1G400, 01	AN3890FBS	IC	2				M. RESISTOR CH 1/10W 82K	1	
1G400, 01 1G402	NJM4580ED	16	1				M. RESISTOR CH 1/10W 15K	-	
<u> </u>									<del> </del>
10403	NJM2903M	10	1				M. RESISTOR CH 1/10W 2.7K	1	
10404	NJM4580ED	10	1				M. RESISTOR CH 1/10W 82K	1	
10450, 51	AN3834K	IC	2	R			M. RESISTOR CH 1/10W 10K	2	
10452	UPG4558G2	IC	1	R:	R21	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
IC510, 11	NJM78L09UA	IC	2	R	25-29	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	5	
10512, 13	NJM79L09UA	IC	2	R:	R31	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1	
IG514	NJM78L05UA	IC	1	R	32	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
IG515, 16		IC	2	R			M. RESISTOR CH 1/10W 1. 2K	1	
10517	NJM79L05UA	10					M. RESISTOR CH 1/10W 56K		
10600	NJM2903M	10	-				M. RESISTOR CH 1/10W 22K		
10000	NUMZSUSM	10						1	
	<u> </u>						M. RESISTOR CH 1/10W 5.6K	_1	
18235	VJS3096640	CONNECTOR (FEMALE)	1				M.RESISTOR CH 1/10W 82K	1	
	l	1		l R:	38, 39		M.RESISTOR CH 1/10W 2.2K	2	
L230, 31	VLQ0576	COIL	2	R	R40	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	l <u></u>
L340	VLQ0504331K	COIL	1	R4	R41	ERJ6GEYG562	M. RESISTOR CH 1/10W 5, 6K	1	
L341	VLQ0407120M	COIL 12UH	1	R	142	ERJ6GEYG682	M. REISITOR CH 1/10W 6.8K	1	
L342	VLQ0504331K	COIL	1	R			M. RESISTOR CH 1/10W 10K	3	
L380		COIL 12UH	1				M. RESISTOR CH 1/10W 0	1	<u> </u>
L381, 82	VLQ0504331K	COIL	2				M. RESISTOR CH 1/10W 10K		
	<del></del>								· · · · · · · · · · · · · · · · · · ·
L510	VLP0133	COIL	1				M. RESISTOR CH 1/10W 2.2K	_!	
							M. RESISTOR CH 1/10W 470	1	
P1, P2	VJP3454B096	CONNECTOR (MALE)	2	R	151	VRE0034E562	M. RESISTOR CH 1/10W 5.6K	1	
			_ 1	R	152		M. RESISTOR CH 1/10W 470	1	
Q1	2SD601A-R	TRANSISTOR	1	R	153	VRE0034E823	M. RESISTOR CH 1/10W 82K	1	
Q2, Q3	2SB709A-R	TRANSISTOR	2	R	154		M. RESISTOR CH 1/10W 5.6K	1	
Q4	2SD601A-R	TRANSISTOR	1				M. REISITOR CH 1/10W 6.8K	1	
Q5	2SB709A-R	TRANSISTOR	1				M. RESISTOR CH 1/10W 0	4	
Q6	2SD601A-R	TRANSISTOR	1				M. RESISTOR CH 1/10W 100	1	
Q340, 41	2SB1174-Q	TRANSISTOR	2				M. RESISTOR CH 1/10W 0	17	<u></u>
0380, 81	2SB1174-Q	TRANSISTOR	_2				M. RESISTOR CH 1/10W 2. 2K	2	
Q400	PU3210	TRANSISTOR	_1				M. RESISTOR CH 1/10W 22K	2	
Q401	PU3110	TRANSISTOR	1				M. RESISTOR CH 1/10W 470K	_1	
Q402	PU3210	TRANSISTOR	1	RE	85	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
Q403	PU3110	TRANSISTOR	1	RE	86	ERJ6GEYG474	M. RESISTOR CH 1/10W 470K	1	
Q510, 11	2SD601A-R	TRANSISTOR	2	RE	87, 88		M. RESISTOR CH 1/10W 10K	2	
	1		$\dashv$				M. RESISTOR CH 1/10W 220K	2	· · · · · · · · · · · · · · · · · · ·
QR1	UN2213	TRANSISTOR-RESISTOR	1				M. RESISTOR CH 1/10W 150K	2	
			-					1	
QR2	UN2113	TRANSISTOR-RESISTOR					M. RESISTOR CH 1/10W 5.6K	_	
QR3	UN2215	TRANSISTOR-RESISTOR	_1				M. RESISTOR CH 1/10W 220K	1	
QR4	UN2115	TRANSISTOR-RESISTOR	1				M. RESISTOR CH 1/10W 5.6K	1	
QR5, R6	UN2213	TRANSISTOR-RESISTOR	2	RS			M. RESISTOR CH 1/10W 27K	1	
QR7, R8	UN2113	TRANSISTOR-RESISTOR	2	R9			M. RESISTOR CH 1/10W 33K	1	
QR30	UN2213	TRANSISTOR-RESISTOR	1				RESISTOR CH 1/10W 2.2K	2	
QR81, 82	UN2213	TRANSISTOR-RESISTOR	2				A RESISTOR CH 1/10W 10K	2	· · · · · · · · · · · · · · · · · · ·
41101, 02	UN2213 UN2113	TRANSISTOR-RESISTOR	1				M. RESISTOR CH 1/10W 220K	2	
OD02		INAMOTOTOR-REGISTOR	_				M. RESISTOR CH 1/10W 5.6K		
QR83	<del></del>	TOUNGLOTOD BECLOTOD				en index victory	a becirious na 1/10W & &V I	1	
QR84	UN2213	TRANSISTOR-RESISTOR	1						· · · · · · · · · · · · · · · · · · ·
	<del></del>	TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR	1				M. RESISTOR CH 1/10W 220K	1	
QR84	UN2213								

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VEP821	סכט		1000				
D-£ N-	Don't No	Part Name & DescriptionPc	Pomowlea	Ref. No.	Part No.	Part Name & Description	Pcs Remarks
Ref. No.			<del></del>			M. RESISTOR CH 1/10W 0	1 Kellaiks
		M. RESISTOR CH 1/10W 5.6K		R256	ERJ6GEYOROO		
R107	ERJ6GEYG273	M. RESISTOR CH 1/10W 27K		R257	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1
R108	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	! <b> </b>	R259, 60	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2
R109	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R261	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1
	·	M. RESISTOR CH 1/10W 2.2K		R262	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1
			?	R263, 64	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2
							1
R124		M. RESISTOR CH 1/10W 10K		R265	ERJ6GEYF473		
R125	ERJ6GEYG474	M. RESISTOR CH 1/10W 470K	<b>Д</b>	R266	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	1
R126	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R267-69	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	3
	ERJ6GEYG474	M. RESISTOR CH 1/10W 470K		R270, 71	ERJ6GEYOROO	M. RESISTOR CH' 1/10W 0	2
			:	R275-78	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	4
							1
				R280	ERJ6GEYOROO		
R132, 33	ERJ6GEYG154	M. RESISTOR CH 1/10W 150K		R281, 82	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	2
R134	ERJ6GEY6103	M. RESISTOR CH 1/10W 10K		R283-85	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	3
R135	ERJ6GEYJ224	M. RESISTOR CH 1/10W 220K		R286, 87	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2
				R300	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1
				R301	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1
R137							1
R138	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	I	R303, 04	<del></del>	M. RESISTOR CH 1/10W 0	2
R139, 40	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K		R305-13	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	9
R141, 42	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R314-16	ERJ6GEYG821	M. RESISTOR CH 1/10W 820	3
				R317-19	ļ	M. RESISTOR CH 1/10W 100	3
			·	R320	ERJ6GEYG222	M. RESISTOR CH 1/10W 2. 2K	1
R145			1				
R146		M. RESISTOR CH 1/10W 220K	1	R321		M. RESISTOR CH 1/10W 3.3K	1
R147	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K		R322-24		M. RESISTOR CH 1/10W 2.2K	3
R148	ERJ6GEYG273	M. RESISTOR CH 1/10W 27K		R325	ERJ6GEYG682	M. REISITOR CH 1/10W 6.8K	1
R149				R326	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1
				R327-29		M. RESISTOR CH 1/10W 3.3K	3
				R330		<u> </u>	1
R162, 63							1
		M. RESISTOR CH 1/10W 10K	· · · · · · · · · · · · · · · · · · ·	R331		M. RESISTOR CH 1/10W 1K	1
R165	ERJ6GEYG474	M. RESISTOR CH 1/10W 470K		R332	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	1
R166	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R333	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1
		M. RESISTOR CH 1/10W 470K		R334	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1
				R336, 37	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	2
				R338, 39	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2
R172		M. RESISTOR CH 1/10W 10K		R340	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	. 1
R173	ERJ6GEYJ224	M. RESISTOR CH 1/10W 220K		R341	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	1
R174	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K		R342	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K	1
		M. RESISTOR CH 1/10W 27K		R343	ERJ6GEYG474	M. RESISTOR CH 1/10W 470K	1
		M. RESISTOR CH 1/10W 33K		R344	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1
				R345	ERJ6GEYG394	M. RESISTOR CH 1/10W 390K	1
							1
		M. RESISTOR CH 1/10W 2.2K		R346	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1
R181, 82	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 2		R347	ERJ6GEYG563	M. RESISTOR CH 1/10W 56K	1
R183, 84	VRE0034E224	M. RESISTOR CH 1/10W 220K		R348	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1
R185	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R349	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1
		M. RESISTOR CH 1/10W 220K	<del> </del>	R350	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1
						M. RESISTOR CH 1/10W 10K	3
		M. RESISTOR CH 1/10W 5.6K	ļ[	R351-53	ERJ6GEYG103		3
		M. RESISTOR CH 1/10W 27K		R354	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1
R189	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K		R355	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1
R200	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K		R356	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1
R201, 02	ERJ6GEYG222	M. RESISTOR CH 1/10W 2. 2K		R357	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1
		M. RESISTOR CH 1/10W 470	<del> </del>	R358	<del></del>	M. RESISTOR CH 1/10W 390K	1
				R359		M. RESISTOR CH 1/10W 1K	1
			1				1
		M. RESISTOR CH 1/10W 1K		R360		M. RESISTOR CH 1/10W 18K	1
R207		M. RESISTOR CH 1/10W 22K		R361	<del> </del>	M. RESISTOR CH 1/10W 47K	Ц
R208	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K		R362, 63	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	2
		M. RESISTOR CH 1/10W 22K		R364	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1
		M. RESISTOR CH 1/10W 2.2K	<del>                                     </del>	R365	ERJ6GEYG474	M. RESISTOR CH 1/10W 470K	1
			<del> </del>		ERJ6GEYG153		1
				R366			1
		M. RESISTOR CH 1/10W 2.2K		R367	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	_ '
R214	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470		R368	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1
R215, 16	ERJ6GEYF561	M. RESISTOR CH 1/10W 560		R369	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1
		M. RESISTOR CH 1/10W 1K		R370		M. RESISTOR CH 1/10W 10K	1
				R371		M. RESISTOR CH 1/10W 56K	1
		M. RESISTOR CH 1/10W 0 5		R372		M. RESISTOR CH 1/10W 470	1
		M. RESISTOR CH 1/10W 0	<u> </u>	R373		M. RESISTOR CH 1/10W 1.2K	1
R234	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R374, 75	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2
		M. RESISTOR CH 1/10W 5.6K S		R380	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1
		M. RESISTOR CH 1/10W 100		R381	<del> </del>	M. RESISTOR CH 1/10W 680	11
							1
		M. RESISTOR CH 1/10W 10K 1	<del></del>	R382		M. RESISTOR CH 1/10W 470	
		M. RESISTOR CH 1/10W 1K 1		R383		M. RESISTOR CH 1/10W 1K	1
R247	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0 1		R384	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1
		M. RESISTOR CH 1/10W 5.6K 4		R385	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	1
		M. RESISTOR CH 1/10W 1M 1		R400, 01		M. RESISTOR CH 1/10W 470	2
			<b> </b>				
		M. RESISTOR CH 1/10W 0 1		R402		M. RESISTOR CH 1/10W 33K	1
R254	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K 1		R403	VRE0034E222	M. RESISTOR CH 1/10W 2.2K	1
				L			
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks Ref. No	.	Part No.	Part Name & Description	Pc	s Remarks
R404, 05	ERJ12YJR68	M. RESISTOR CH 1/2W 0.68	2	TP202	_		TEST POINT	1	
R406, 07		M. RESISTOR CH 1/10W 22K	2	TP231-34	1 VJF	R0646	TEST POINT	4	
R408		M. RESISTOR CH 1/10W 2.2K	1	TP280	VJF	R0646	TEST POINT	1	
R409		M. RESISTOR CH 1/10W 150K	1	TP300-02	2 VJF	R0646	TEST POINT	3	
R410		M. RESISTOR CH 1/10W 2.7K	1	TP320, 21	V JF	R0646	TEST POINT	2	
R411	ERJ6GEYJ274	M. RESISTOR CH 1/10W 270K	1	TP400, 01	VJF	R0646	TEST POINT	2	
R412		M. RESISTOR CH 1/10W 2.7K	1	TP450, 51	l VJF	R0646	TEST POINT	2	
R413		M. RESISTOR CH 1/10W 27K	1						
R414, 15		M. RESISTOR CH 1/10W 22K	2	X320	VS)	X0645	CRYSTAL OSCILLATOR	1	
R416		M. RESISTOR CH 1/10W 1.2K	1		$\neg$				
R417		M. RESISTOR CH 1/10W 220K	1				MISCELLANEOUS	-	
R418		M. RESISTOR CH 1/10W 2, 7K	1		$\top$				
R419		M. RESISTOR CH 1/10W 22K	1		VMI	L2143	GARD PULLER	1	
R420		M. RESISTOR CH 1/10W 4.7K	1			L2144	CARD PULLER	1	
R421		M. RESISTOR CH 1/10W 270K	1						<del></del>
R422		M. RESISTOR CH 1/10W 2.7K	1						
R423		M. RESISTOR CH 1/10W 0	1		VFF	P86146E	F2 SYSCON C. B. A.	h	(RTL) FOR AJ-D650E
		M. RESISTOR CH 1/10W 22K	2				F2 SYSCON C. B. A.	1	(RTL) FOR AJ-D640E
			1		175	1001401	12 01000# 0, 5, 7.	<b>-</b>	1 1011 1010
R426	VRE0034E333	M. RESISTOR CH 1/10W 33K		<u> </u>				-	
R427	VRE0034E222	M. RESISTOR CH 1/10W 2. 2K	1			DH1510475N	C CADACITOD ON SEV. O 111	-	
R428, 29	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	2	C1			C. CAPACITOR CH 25V 0. 1U	닏	
R430, 31	ERJ12YJR68	M. RESISTOR CH 1/2W 0.68	2	G9			C. CAPACITOR CH 25V 0. 1U	1	
R432, 33	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	2	C10, 11			C. CAPACITOR CH 50V 15P	2	
R436, 37	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	C12			C. CAPACITOR CH 25V O. 1U	1	
R450	VRE0034E472	M. RESISTOR CH 1/10W 4.7K	1	G13			P. CAPACITOR 50V 0.1U	1	
R451	VRE0034E122	M. RESISTOR CH 1/10W 1.2K	1	C14			E. CAPACITOR CH 25V 4. 7U	_1	<u></u>
R452	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	C15			C, CAPACITOR CH 25V 0.1U	_1	
R453-55	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	3	C16-26	ECL	UM1H1O3KBN	G, CAPACITOR CH 50V 0.01U	11	
R456, 57	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2	- 2	- 027	ECL	UM1E104ZFN	G, CAPACITOR CH-25V 0.1U	-1	
R458		M. RESISTOR CH 1/10W 39K	1	G29			G. CAPACITOR CH 25V 0. 1U	1	
R459		M. RESISTOR CH 1/10W 12K	1	G30	EGL	UM1H1O3KBN	G. CAPACITOR CH 50V 0. 01U	1	
R460		M. RESISTOR CH 1/10W 270	1	C32-34			C. CAPACITOR CH 50V 0. 01U	3	
R461		M. RESISTOR CH 1/10W 4.7K	1	C35			C. CAPACITOR CH 50V 47P	1	
R462		M. RESISTOR CH 1/10W 1.2K	1	G36, 37			C. CAPACITOR CH 25V 0.1U	2	
R463		M. RESISTOR CH 1/10W 1K	1	G38, 39			G. CAPACITOR CH 50V 0. 01U	2	
			2	G46			C. CAPACITOR CH 50V 0. 01U	1	
		M. RESISTOR CH 1/10W 33	_	G47			G. CAPACITOR CH 25V 0. 1U	;	
R466, 67	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2	2					$\frac{1}{1}$	
R468		M. RESISTOR CH 1/10W 39K		G49	_		C. GAPACITOR CH 16V 1U	1	
R469		M. RESISTOR CH 1/10W 12K	_1	C51	_		C. CAPACITOR CH 16V 1U	-	
R470	ERJ6GEYG271	M. RESISTOR CH 1/10W 270	_1	G53			C. CAPACITOR CH 16V 1U		
R471		M. RESISTOR CH 1/10W 33	_1	C55			C. CAPACITOR CH 16V 1U	1	
R510		M. RESISTOR CH 1/10W 560	_ 1	G56-58			C, CAPACITOR CH 50V 0.01U	3	
		M. RESISTOR CH 1/10W 390	2	C59, 60	_		E. CAPACITOR CH 16V 47U	2	
R513	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	C65			E. CAPACITOR CH 16V 47U	1	
R514-17	VRE0034E391	M. RESISTOR CH 1/10W 390	4	G66			E. CAPACITOR 6800U	_1	
R550-59	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	10	C67	ECL	UM1E104ZFN	C. CAPACITOR CH 25V 0. 1U	1	
R600-02	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	3	C68, 69			C. CAPACITOR CH 25V 0. 1U	2	
R603-06	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	4	G70, 71	ECL	UM1H103KBN	C. CAPACITOR CH 50V 0. 01U	2	:
	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	9	G72	ECE	EV1CV100Q	E. CAPACITOR CH 16V 10U	1	
R621	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K	1	G73	ECL	UM1E104ZFN	G. CAPACITOR CH 25V 0.1U	1	
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	6	C74			E. CAPACITOR CH 16V 47U	1	
R628	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	Ť	C76			E. CAPACITOR 6800U	1	<b>1</b>
	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2	C77, 78			C. CAPACITOR CH 50V 0. 01U	2	<u> </u>
R631, 32	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	C79			C, CAPACITOR CH 16V 1U	1	<u> </u>
R640	ERJ6GEY6103	M. RESISTOR CH 1/10W 10K	H	G81			C. CAPACITOR CH 16V 1U	H	
R650, 51	ERJ6GEYG562	M. RESISTOR CH 1/10W 5. 6K	2	C83			G. CAPACITOR CH 25V O. 1U	H	
		M. RESISTOR CH 1/10W 6.8K	1	C86, 87			G. CAPACITOR CH 50V 0.01U	- 2	
R652	VRE0034E682		1	C88-90			G. GAPAGITOR CH 25V 0. 1U	3	
R653	VRE0034E102	M. RESISTOR CH 1/10W 1K	1	C91, 92			C. CAPACITOR CH 25V U. 10	2	
654	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K						۲,	
R655	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	C93			E. CAPACITOR CH 16V 10U	<u> </u>	
656	ERDS2TJ101	C. RESISTOR 1/4W 100	1	C500, 01			C. CAPACITOR CH 50V 12P	2	
				G502			C. CAPACITOR CH 50V 0. 01U	_1	
G510, 11	VJR0646	TEST POINT	2	C503-06			C. CAPACITOR CH 25V 0.1U	4	
				G508-13			C. CAPACITOR CH 50V 0. 01U	6	
'P1	VJR0646	TEST POINT	1	G514			G. GAPAGITOR CH 25V 0.1U	. 1	
P2	EYF6CU	TEST POINT	1	C516-19			C. CAPACITOR CH 25V 0.1U	4	
P30, 31	VJR0646	TEST POINT	2	G520	EGL	UM1H103KBN	C. CAPACITOR CH 50V 0. 01U	1	
	EYF6CU	TEST POINT	2	C523	ECL	UM1H331JCN	C. CAPACITOR CH 50V 330P	1	
P34, 35	VJR0646	TEST POINT	2	C526, 27	EGL	UM1H1O2JCN	C. CAPACITOR CH 50V 1000P	2	
P60	VJR0646	TEST POINT	1	C532-35			C. CAPACITOR CH 50V 0. 01U	4	
P80-83	VJR0646	TEST POINT	4	G537, 38			C. CAPACITOR CH 25V O. 1U	2	
P120-23	VJR0646	TEST POINT	4	G543-45			C. CAPACITOR CH 50V 0.01U	3	
P160-63	VJR0646	TEST POINT	4	C547			C. CAPACITOR CH 50V 0.01U	1	
P200	EYF6CU	TEST POINT	-	G548			G. GAPACITOR CH 25V 0.1U	<u>-</u>	
P200 P201		TEST POINT	1	C549, 50			G. CAPACITOR CH 50V 0.01U	2	
FZVI	VJR0646	ILUI FUIIII		0348, 50	100	J. IIII VUNDII			
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Ref No Part\_No Part Name & DescriptionPcs Remarks Ref. No. Part No. Part Name & DescriptionPcs Remarks ECUMIE104ZFN C. CAPACITOR CH 25V MA715 0, 10 | 11 C703-13 D709 DIODE DIODE ECUM1H103KBN C. CAPACITOR CH 50V 0.01U D711-14 MA157 G714 -C715, 16 ECUMINASOJON IC CAPACITOR CH 50V 33P 2 D715 MA 152WK DIODE G717-21 ECUM1E104ZFN C. CAPACITOR CH 25V 0. 1U 5 D716-19 MA715 DIODE ECUMINIODON G. CAPACITOR CH 50V SN74S1051NS 3 10P 2 D720-22 IG C724, 25 EGUM1E104ZFN G. CAPAGITOR CH 25V 0. 1U 2 D723, 24 MA715 DIODE ECUM1H270JCN G. CAPACITOR CH 50V 27P C726 FI 701 02 VI F1016A470 FILTER 2 G727 ECUM1H220JCN G. CAPACITOR CH 50V 22P C728 ECEVOJV470Q E. GAPACITOR CH6. 3V 4711 FL900-03 VLF1016A470 FILTER 4 ECUM1H102JCN G. CAPACITOR CH 50V C729 1000P 6800P M37702S4AFP **C730** ECUM1H682KBN C. CAPACITOR CH 50V ECEV1CV1000 E. CAPACITOR CH 16V 102 VS12397 C731 100 10 74F573SJ ECUMINIOSKBN C CAPACITOR CH 50V 0.01U 1 C3 IC C732 C733, 34 EGEV1EN4R70 E. CAPACITOR CH 25V 4. 7U 104 74F138S.I 10 C735 ECUM1H103KBN C. CAPACITOR CH 50V 0. 01U 1 C 5 74F573SJ IG C736 ECA1CAXN330 E. CAPACITOR 33U IG6 TL7705GPSB C737 ECUM1H103KBN C. CAPACITOR CH 50V 1G7 MC74HC132AF 0.010 10 MG74HG04AF EGA1GAXN330 167 IC8 10 **C738** E. CAPACITOR 33U C739, 40 ECUM1H103KBN G GAPAGITOR CH 50V 0 0111 2 109 10 74AG32SJ IC 2 C741 ECEV1EN4R70 E. CAPACITOR CH 25V 4. 7U IC11, 12 74F32SJ 1 C 2 G742 ECUM1H120JCN C. CAPACITOR CH 50V 12P IC13 MC74HC74AF IIG **G743** ECEV1CV1000 E. CAPACITOR CH 16V 100 IC14 74F11SJ IC ECEV1EN4R70 E. CAPACITOR CH 25V IC15 1DT71321A55 C744, 45 4. 70 IC C. CAPACITOR CH 50V ECUM1H103KBN IC16 74F245SJ C746 0. 01U IC C747-61 FGUM1F1047FN C. CAPACITOR CH 25V 0. 1U 15 1G17 DS1230Y100 IC 1 C762 ECEV1CV4700 F CAPACITOR CH 16V 47U 1019, 20 74F541SJ IG 2 **C763** ECUM1E104ZFN C. CAPACITOR CH 25V 0. 1U 1C23 74F245SJ IC G764 ECEV1CV470Q E. GAPAGITOR CH 16V 47U 1G24 UPD6456T611Y ECUMIE104ZFN C, CAPACITOR CH 25V 1 C25 74F138SJ ..1 C765 IG 0.10 ECEVICV4700 E. CAPACITOR CH 16V 1C26 MB89363BHPF IC C766 47U 0767 ECUMINIOSKBN C. CAPACITOR CH 50V 0.01U IG27 28 M546491 IG 2 C768 ECEV1CV4700 E. CAPACITOR CH 16V 47U 1G29 NJM2901M 10 ECUMIHIO3KBN C. CAPACITOR CH 50V 0.01U NJM2904M C769 1 C30 10 C770 ECUM1H561JCN C. CAPACITOR CH 50V 560P 1G31, 32 MC14538BF 10 2 ECUM1H222KBN C. CAPACITOR CH 50V 2200P C771 1G33 74F32SJ 10 1C34 74F00SJ G772, 73 ECUMINIOSKEN C. CAPACITOR CH 50V 0.01U 10 G774 ECEV1EN4R70 E. CAPACITOR CH 25V 4. 7U 1035 NJM2901M 10 1 G775 ECUM1E104ZFN C. CAPACITOR CH 25V 0. 1Ü 1036.37 TC7S14F iG 2 ECUM1H103KBN C. CAPACITOR CH 50V 10500 HD64180ZRP8 10 C776 0. 01U G777-80 EGUM1E104ZFN G. CAPAGITOR CH 25V 0. 11 IG501, 02 MC74HC541AF ECUM1H103KBN C. CAPACITOR CH 50V 0. 01U 10503 VS12398A IC C781, 82 ECUMIE 104ZEN C. CAPACITOR CH 25V 1C504 K6256CLG7L 10 G783 0. 1U C784 ECUM1H103KBN C. CAPACITOR CH 50V 0.01U 1C505 IDT71321A55 10 C785 EGUM1E104ZFN G. CAPACITOR CH 25V 0. 1U 1C506 MC74HC138AF 10 1 G900, 01 EGEV1CV4700 E. CAPACITOR CH 16V 47U 1G507 74F32SJ C902. 03 ECUM1E104ZFN G. CAPACITOR CH 25V 0. 1U 1G508 MC74HCOOAF IG 10509 T74HC191AF G904-07 ECEVICV4700 E. CAPACITOR CH 16V 47U lıc 1C510 784G4310FFC 10 D1 MA157 DIODE 10514 MC34051M IG 1 D2-D5 MA715 DIODE 10515 MC1488M D8 MA152WK DIODE 1C516 MC1489AM IG MA3068-H LC517 MC14024BF D9 DIODE 1 IC 1 D10 MA3051-H DIODE 1C523 MC74HC04AF IC MA3047-M DIODE 1C524 MC14050BF 1 D11 IC D12 MA3100-M DIODE 1C525 SN74LS38NS IC DIODE 1 C527 MB89363BPF MA3051-H IC D13 1 D14 MA3075-M DIODE 10528 29 MG14021RF 1 C 2 D15 21DQ04 DIADE 10530, 31 T74HG191AF IG 2 D16 MA3051-H DIODE 1C532 MC74HC574AF IC 1 D17 MA157 DIODE 1G701 M37702S4AFP D18-22 MA152WK DIODE 1G702 VS12399 IC K6256CLG7L IIC 1 D25-27 MA152WK DIODE 3 1G703 D28-43 MA738 DIODE 16 1C704 74F573S.I lic 1 MA152WK DIODE 10705, 06 74F138SJ 2 D44 IC D45-48 MA738 DIODE 10707, 08 74F32SJ SN74S1051NS IG709 74F00SJ D49, 50 IC IC 051 MA3062-L DIODE 10710 MN51040VP 11C 1 D52 MA3082M DIODE 10711 MC74HC574AF 10 D53 MA3075-M DIODE IC712 74AG32SJ 10 IC713 74F32SJ D54 MA738 DIODE 10 74F541SJ D500 MA152WK DIODE IC714, 15 D504, 05 MA715 DIODE 2 IG716 74F245SJ IC 1 D506 MA152WK DIODE 1G717 74F541SJ IC D507 MA715 DIODE 10718 MC14053RF 10 1 D701-06 MA715 DIODE 6 IC719 NJM4560MD IC

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	& Donori	Dont Nome & F	Part No. F	Def No	P I	$\Box$			721001
PATE				Ref. No.	Remarks	Pcs			Ref. No.
1972   MPCHATTER   0						1	IC	NJM2068MD	1G720
10724   AMAPOR PAPEN   CO				R20		1	10	UPG319G2	10721
10724   MARTINGRAM   10	CH 1/10W	M. RESISTOR CH	RJ6GEYF473	R21, 22		1	IC	UPG4741G2	1C722
1975   1975	CH 1/10W	M. RESISTOR CH	NJ6GEYG103	R23 24		1			
NAMES   NAME									
182									
MASSESSIANCE						2	IC .	NJM084M	10725, 26
1979   VIZIOSIONEZI   DESCRIPTION (PTANLE)   1   848, 39   BAUGRETICAT   20   1   1   1   1   1   1   1   1   1						Ш			
1815   1915	CH 1/10W	M. RESISTOR CH	RJ6GEYG103	R33-35	1	1	CONNECTOR (FEMALE)	VJS2336A032	IS2
SESSION   VARIABINADE   DIRECTIFIC (FEMALE)   1	CH 1/10W	M. RESISTOR CH	RJ6GEYF473	R38, 39		1	CONNECTOR (FEMALE)	VJS3096628	
15702   VISSISSENSIS   VISSISSENS	CH 1/10W	M. RESISTOR CH				1			
1						<del>-  </del>			
1.1						├	GUNNEGIUR (FEMALE)	VJS2336AU32	18702
1.00   1.00						-			
1,000-03   1,000-05			-			1	GOIL 27UH	VLQ0163J270	L1
Top-04   Top-05   T	CH 1/10W	M. RESISTOR CH	RJ6GEYG103	R47	1	1	COIL 47UH	VLQ0319K470	L2
1,000-03   1,000   1	CH 1/10W	M. RESISTOR CH	RJ6GEYG562	R48		4	COIL	VL00576	1500-03
BRI-0-03   VLP0133   O011	CH 1/10W	M. RESISTOR CH	RJ6GEYG222	R49		1			
Section   Company   Comp	CH 1/10W	M RESISTOR CH							
LED1-04   LR125TGAL   DIODE							GUIL	VLPU133	L900-03
Sep-e1   Supplement   Supplem						$\dashv$			
P. P. P. VARGAGGGGG GOMRETOR (MALE) 2   RR2 SUBJECTION ON 1   TORK STORM   1   RR3   RR3						4	DIODE	LN1251CAL	LED1-D4
2837-09-R   TANNSISTOR	CH 1/10W	M. RESISTOR CH	RJ6GEYG222	R58-61		1 1			
2837-09-R   TANNSISTOR	CH 1/10W	M. RESISTOR CH	RJ6GEYG103	R62		2	GONNECTOR (MALE)	VJP3454B096	P1. P2
28710-R   TAMASISTOR						$\Box$	,	1	<del></del>
Second Color   Color					<del> </del>	<del>   </del>	TRANSISTOR	2007104-0	
2000  1.0						-			
10.00									<u> </u>
2000   2000   10							TRANSISTOR	2SD601A-R	Q5, Q6
Dec   Cassonia-R   Transistor   1   Re2   ERAGETY104   RESISTOR OH 1/109   100K   1   1   1010   2005   2				R76, 77		2	TRANSISTOR	2SB1073-R	07, 08
Transistro   1	CH 1/10W	M. RESISTOR CH	RJ6GEYG104	R82		1			
11.12   250119-R   TRANSISTOR   1   R84-87   RRAGEVIDO   M. RESISTOR CH.1/TOW   TOW   4   1015.   16   250501A-R   TRANSISTOR   1   R89-95   RRAGEVIDO   M. RESISTOR CH.1/TOW   TOW   1   1015.   6   250501A-R   TRANSISTOR   2   R89-   RRAGEVIDO   M. RESISTOR CH.1/TOW   TAW   1   1015.   6   250501A-R   TRANSISTOR   2   R89-   RRAGEVIDO   M. RESISTOR CH.1/TOW   TAW   1   1   1   1   1   1   1   1   1						1			
13						<del>-`</del> +			
19   250001A-R   TRANSISTOR   1									
15.16   2.551073-R   TRANSISTOR   2   R70   R80   EULBEFFF73   RESISTOR OF 1/109   47K   1   1   1   1   1   1   1   1   1						-			Q13
17   250601A-R   TAMISISTOR   1   R100   EAGGEFF103   RESISTOR OI 1/109   10K   1   1   1   1   1   1   1   1   1						1	TRANSISTOR	2SD601A-R	Q14
017   258001A-R   TAMASISTOR   1   R97   ENJBERYGIOS   R. RESISTOR OH 1/10W   10K   1   1   1   1   1   1   1   1   1	CH 1/10W	M. RESISTOR CH	RJ6GEYF473	R96		2	TRANSISTOR	2SB1073-R	Q15, 16
1019   2057094-R	CH 1/10W	M. RESISTOR CH	RJ6GEYG105	R97		1	TRANSISTOR	2SD601A-R	
1019, 20   2807109-R	CH 1/10W	M. RESISTOR CH	RJ6GEYG103	R100					
121   283700A-R   TRANSISTOR   1									
REGISTOR   FIRMSISTOR   1							· · · · · · · · · · · · · · · · · · ·		
March   Marc							TRANSISTOR	2SB709A-R	Q21
RESISTOR OF COLUMN			R105		1	TRANSISTOR	2SD601A-R	022	
Q25   Q25D0BAR   TRANSISTOR   1	CH 1/10W	M. RESISTOR CH	RJ6GEYG105	R106		2	TRANSISTOR	2SB1175-Q	023, 24
Dec    CH 1/10W	M. RESISTOR CH	RJ6GEYG103	R108		1				
Q27. 28   2801747—01   TRANSISTOR   2   R111. 12   ERJGGEYF472   R. RESISTOR CH 1/10W 4. 7K   2   Q29   285709A—R   TRANSISTOR   1   R114   ERJGGEY1673   R. RESISTOR CH 1/10W 1   1   1   1   1   1   1   1   1   1	CH 1/10W	M. RESISTOR CH	RJ6GEYF473	R109 10	<u> </u>	1			
Color   Colo									
R114   ERJGECYG105   M. RESISTOR CH 1/10W 1M   T									
No.   Control					11	TRANSISTOR	2SB709A-R	Q29	
No.   Company					1	TRANSISTOR	2SD601A-R	Q30	
Q33   2SB601A-R   TRANSISTOR   1	CH 1/10W	M. RESISTOR CH	RJ6GEYG103	R116		2	TRANSISTOR	2SB1073-R	031. 32
Q34   2SB709A-R   TRANSISTOR   1	CH 1/10W	M. RESISTOR CH	RJ6GEYF473	R117, 18		1	TRANSISTOR	2SD601A-R	
R121   ERJGGEYF473   M. RESISTOR CH 1/10W   47K   1	CH 1/10W	M. RESISTOR CH	RJ6GEYF472	R119, 20		1			
Continue					ښــــــــــــــــــــــــــــــــــــــ				
G38   258601A-R   TRANSISTOR   1						1			
Rizer   Control   Contro	<del> </del>					11		2SB709A-R	Q37
R127, 28   ERJ6GEYF472   M. RESISTOR CH 1/10W 4.7K   2	CH 1/10W	M. RESISTOR CH	RJ6GEYG103	R124	·i	1	TRANSISTOR	2SD601A-R	Q38
R127, 28   ERJ6GEYF472   M. RESISTOR CH 1/10W 4.7K   2	CH 1/10W	M. RESISTOR CH	RJ6GEYF473	R125, 26		1	TRANSISTOR	2SB1175-Q	039
O704,05   ZBB708A-R	CH 1/10W	M. RESISTOR CH	RJ6GEYF472	R127, 28	;	3			
R138, 39   RJ66EYG103   M. RESISTOR CH 1/10W   10K   2									
R141, 42   ERJGGEYF473   M. RESISTOR CH 1/10W 47K 2		<u> </u>			<del>                                     </del>	1	IIIMIOIOIUI	ZOD / USA-K	4704,05
R144   ERJGGEYOROD   M. RESISTOR CH 1/10W 0 1					ļ	╁┷		I	
RRIF-16   UN2213   TRANSISTOR-RESISTOR   1   RRIF-47   ERJGGEYGROO   M. RESISTOR CH 1/10W   47K   3									
R148   ERJGGEYOROO   M. RESISTOR CH 1/10W   O   1			+				TRANSISTOR-RESISTOR	UN2214	QR11-16
R18	CH 1/10W	M. RESISTOR CH	RJ6GEYF473	R145-47		1	TRANSISTOR-RESISTOR	UN2213	QR17
R150   R150   R150   R150   R150   R150   R150   R150   R150   R151   R151   R150   R151   R151   R150   R151   R151   R150   R151	CH 1/10W	M. RESISTOR CH	RJ6GEY0R00	R148	,	9			
R151   R736EY0R00   M. RESISTOR CH 1/10W   0   1									
RIS2   ERJGGEYG222   M. RESISTOR CH 1/10W   2. 2K   1									
RTS3   UN2214   TRANSISTOR-RESISTOR   2   RTS3   ERJGGEYG271   M. RESISTOR CH 1/10W   270   1									
R154			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					UN2113	QR31, 32
R154   ERXISJIRO   M. RESISTOR   1   1.0   1			t				TRANSISTOR-RESISTOR	UN2214	QR33, 34
OR37, 38   UN2213   TRANSISTOR-RESISTOR   2   R155   ERJGGEYGROO   M. RESISTOR CH 1/10W   0   1	1₩	M. RESISTOR	RX1SJ1RO	R154	2	2	TRANSISTOR-RESISTOR		
R156   R157   R157   R158   R157   R158	CH 1/10W	M. RESISTOR CH	RJ6GEYOROO	1		4—	L		
R157   R156EY6222   M. RESISTOR CH 1/10W 2. 2K 1									
R1-R5   R1-R6    R1									
R1-R5   R1-R									
RRI-RS   UN2214   TRANSISTOR-RESISTOR					.,	4		JUN2113	QR42
OR701-05         UN2214         TRANSISTOR-RESISTOR         5         R160         ERJGGEYG103         M. RESISTOR CH 1/10W 10K 1         1           R1-R5         ERJGGEYF473         M. RESISTOR CH 1/10W 47K 5         R162, 63         ERJGGEYG103         M. RESISTOR CH 1/8W 150 2         2           R6-10         ERJGGEYG103         M. RESISTOR CH 1/10W 10K 5         R164, 65         ERJGGEYG563         M. RESISTOR CH 1/10W 56K 2         2           R11, 12         ERJGGEYG332         M. RESISTOR CH 1/10W 3, 3K 2         R166         ERJGGEYG152         M. RESISTOR CH 1/8W 1.5K 1         1           R13, 14         ERJGGEYG103         M. RESISTOR CH 1/10W 10K 2         2         R167-69         ERJBGCYJG81         M. RESISTOR CH 1/8W 680 3					<i>i</i>	_ 1	TRANSISTOR-RESISTOR	UN2213	QR43
R1-R5 ERJGGEYF473 M. RESISTOR CH 1/10W 47K 5 R162, 63 ERJBGCYJ151 M. RESISTOR CH 1/10W 150 2 R6-10 ERJGGEYG103 M. RESISTOR CH 1/10W 10K 5 R164, 65 ERJGGEYG633 M. RESISTOR CH 1/10W 56K 2 R11, 12 ERJGGEYG322 M. RESISTOR CH 1/10W 3, 3K 2 R166 ERJBGCYJ152 M. RESISTOR CH 1/10W 1.5K 1 R13, 14 ERJGGEYG103 M. RESISTOR CH 1/10W 10K 2 R167-69 ERJBGCYJ681 M. RESISTOR CH 1/8W 680 3	CH 1/10W	M. RESISTOR CH	RJ6GEYG103	R160	j	5			
R1-R5	CH 1/10W	M. RESISTOR CH			<del>                                     </del>	+		- <del> </del>	2.7.51 00
R6-10					:	-	H DECLETOR OF 1/10W 47V	ED ICOPYE 430	D1 55
R11. 12 ERJ6GEYG332 M. RESISTOR CH 1/10W 3.3K 2 R166 ERJ8GCYG152 M. RESISTOR CH 1/8W 1.5K 1 R13, 14 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 2 R167-69 ERJ8GCYJ681 M. RESISTOR CH 1/8W 680 3						$\rightarrow$			
R13, 14		·····						ERJ6GEYG103	R6-10
R13, 14			4		<u> </u>	_ 2	M. RESISTOR CH 1/10W 3.3K	ERJ6GEYG332	R11, 12
	CH 1/8W	M. RESISTOR CH	RJ8GCYJ681	R167-69	2	2			
R16 ERJ6GEYF473 M. RESISTOR CH 1/10W 47K 1 R170 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 1	CH 1/10W	M. RESISTOR CH	RJ6GEYG103	R170		$\rightarrow$			I
NIO ELIGIBETTATO III NEOTOTO III PERIODE II DEPLOTAD DILI 1/10W FOLV 1						_			
R17 ERJ66EYG394 M. RESISTOR CH 1/10W 390K 1 R171 ERJ66EYG563 M. RESISTOR CH 1/10W 56K 1	2 17 TOR	,		- ····	4	<del> '</del>	m. RESISTOR OF 1/101 390K	ERJOUE 10394	KI/
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Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & DescriptionPcs Remarks
R172, 73	ERJ6GEYG394	M. RESISTOR CH 1/10W 390K 2		R299	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K 1
				R304-15		M. RESISTOR CH 1/8W 390 12
R174-81	ERJ6GEYG103			R316, 17	ERG1SJ100	M. RESISTOR 1W 10 2
R182		M. RESISTOR CH 1/10W 33K 1				
R184		M. RESISTOR CH 1/10W 4.7K 1		R318	ERX1SJ6R2	
R185	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 1		R319	ERG1SJ100	M. RESISTOR 1W 10 1
R186	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K 1	-	R320		M. RESISTOR CH 1/10W 2. 2K 1
R187-90	ERJ8GCYJ391	M. RESISTOR CH 1/8W 390 4	·	R321-28		M. RESISTOR CH 1/10W 47 8
R191	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K 1		R329, 30	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 2
R192	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K 1		R332	ERJ6GEYG222	M. RESISTOR CH 1/10W 2. 2K 1
R193, 94	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 2		R333	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0 1
R195	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K 1		R334	ERJ6GEYF472	M. RESISTOR CH 1/10W 4. 7K 1
R196, 97		M. RESISTOR CH 1/8W 390 2		R335	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 1
				R336	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K 1
R198	ERJ6GEYG332			R337, 38	ERJ8GCYJ391	M. RESISTOR CH 1/8W 390 2
R199, 00		M. RESISTOR CH 1/8W 390 2				
R201		M. RESISTOR CH 1/10W 3.3K 1		R341	ERJ6GEYG105	
R202	4	M. RESISTOR CH 1/10W 10K 1		R342	ERJ6GEYF473	III, ALBIOTOR CA 17 TON
R203, 04	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K 2		R345	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M 1
R205	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 1		R346	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K 1
R206	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K 1		R347	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K 1
R207, 08	ERJ8GCYJ391	M. RESISTOR CH 1/8W 390 2		R348	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 1
R209		M. RESISTOR CH 1/10W 3.3K 1		R349-62	ERJ6GEYG470	M. RESISTOR CH 1/10W 47 14
R210, 11	ERJ8GCYJ391	M. RESISTOR CH 1/8W 390 2		R363, 64	ERJ6GEYG271	M. RESISTOR CH 1/10W 270 2
R210, 11	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K 1		R365	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K 1
	ERJ6GEYG103	M. RESISTOR CH 1/10W 4.7K 1		R366	ERJ6GEYG563	M. RESISTOR CH 1/10W 56K 1
R213, 14	4			R500	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K 1
R215	ERJ6GEYF472					
R216, 17	ERJ8GCYJ391	M. RESISTOR CH 1/8W 390 2		R501	ERJ6GEYG103	
R218	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K 1		R502, 03	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K 2
R219, 20	ERJ8GCYJ391	M. RESISTOR CH 1/8W 390 2		R504-11	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 8
R221	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K 1		R512		M. RESISTOR CH 1/10W 47K 1
R222	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 1		R513, 14	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 2
R223, 24	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K 2		R517	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K 1
R225	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 1		R518, 19	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K 2
R226	ERJ6GEYG392	M. RESISTOR CH 1/10W 3. 9K 1		R520		M. RESISTOR CH 1/10W 100 1
R227, 28	ERJ8GCYJ391	M. RESISTOR CH 1/8W 390 2		R529-31		M. RESISTOR CH 1/10W 47K 3
R229	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K 1		R532, 33		M. RESISTOR CH 1/10W 4.7K 2
	<del></del>			R534		M. RESISTOR CH 1/10W 100 1
R230, 31	ERJ86CYJ391				<del></del>	
R232		M. RESISTOR CH 1/10W 4.7K 1		R542	ERJ6GEYG223	
R233, 34	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 2		R545	ERJ6GEYG103	
R235	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K 1		R546	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K 1
R236, 37	ERJ8GCYJ391	M. RESISTOR CH 1/8W 390 2		R548, 49	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K 2
R238	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K 1		R550, 51	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 2
R239, 40	ERJ8GCYJ391	M. RESISTOR CH 1/8W 390 2		R554-58	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 5
R241	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K 1		R580	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K 1
R242	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 1		R585	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0 1
R243, 44	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K 2		R598	ERJ6GEYG101	M. RESISTOR CH 1/10W 100 1
R245		M. RESISTOR CH 1/10W 10K 1		R599	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 1
		M. RESISTOR CH 1/10W 3.3K 1		R606, 07	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0 2
R246				R608	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K 1
R247, 48						M. RESISTOR GH 1/10W 10K 4
R249		M. RESISTOR CH 1/10W 3.3K 1				
R250, 51		M. RESISTOR CH 1/8W 390 2			<del></del>	
R252		M. RESISTOR CH 1/10W 4.7K 1		R621-28		M. RESISTOR CH 1/10W 10K 8
R253, 54		M. RESISTOR CH 1/10W 10K 2		R630	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0 1
R255	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K 1		R633		M. RESISTOR CH 1/10W 0 1
R256, 57	ERJ8GCYJ391	M. RESISTOR CH 1/8W 390 2		R635		M. RESISTOR CH 1/10W 0 1
R258	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K 1		R637	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0 1
R259, 60	ERJ8GCYJ391	M. RESISTOR CH 1/8W 390 2		R640	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0 1
R261		M. RESISTOR CH 1/10W 3.3K 1		R641	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K 1
R262		M. RESISTOR CH 1/10W 10K 1		R701		M. RESISTOR CH 1/10W 10K 1
R263	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K 1	<del> </del>	R702		M. RESISTOR CH 1/10W 2.2K 1
				R705-10	ERJ6GEYG394	M. RESISTOR GH 1/10W 390K 6
R266-69	ERJ6GEYOROO			R711-16	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K 6
R271	ERJ6GEYG821	M. RESISTOR CH 1/10W 820 1				
R273		M. RESISTOR CH 1/10W 820 1		R717		(IIII 1120   C)   C)   C)   C)   C)   C)   C)   C
R275		M. RESISTOR CH 1/10W 820 1		R718		M. RESISTOR CH 1/10W 100 1
R277 -		M. RESISTOR CH 1/10W 820 1		R719, 20	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K 2
R281	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0 1		R721, 22		M. RESISTOR CH 1/10W 0 2
R284, 85		M. RESISTOR CH 1/10W 0 2		R723-26	ERJ6GEY6102	M. RESISTOR CH 1/10W 1K 4
R288		M. RESISTOR CH 1/10W 4.7K 1		R727	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M 1
R290	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K 1		R728-31		M. RESISTOR CH 1/10W 47K 4
R291	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M 1		R732-34	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K 3
		M. RESISTOR CH 1/10W 47K 2		R735	<del> </del>	M. RESISTOR CH 1/10W 10K 1
R292, 93				R736		M. RESISTOR CH 1/10W 100K 1
R294	ERJ6GEYG103					
R295		M. RESISTOR CH 1/10W 4:7K 1		R737	<del>                                     </del>	
R296		M. RESISTOR CH 1/10W 47K 1		R738	ERJ6GEYG221	M. RESISTOR CH 1/10W 220 1
R297	ļ	M. RESISTOR CH 1/10W 4.7K 1		R739, 40	·	M. RESISTOR CH 1/10W 10K 2
R298	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M 1		R741, 42	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K 2
					<u></u>	

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R745, 46 R747 R748 R749, 50 R751 R752, 53 R754 R755 R756-59 R762 R764, 65 R766-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJGGEYG101 ERJGGEYG102 ERJGGEYG102 ERJGGEYG102 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG104 ERJGGEYG104 ERJGGEYG104 ERJGGEYG104 ERJGGEYG105 ERJGGEYG105 ERJGGEYG105 ERJGGEYG105 ERJGGEYG103	Part Name & Description M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 3. K M.	2 2 1 1 1 2 1 1 1 2 2 1 1 1 3 3 1 1 1 1		Ref. No. R892 R893 R894 R895 R900-03 SW501 T61 TG701 TP8	ERJ6GEYG103 ERJ6GEYOR00 ERJ6GEYG103 ERJ6GEYOR00 ERJ6GEYOR00 ERJ6GEYOR00 VSS0367-08B EYF6GU EYF6GU	Part Name & Description M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 0 SWITCH TEST POINT TEST POINT TEST POINT	Pcs 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R745, 46 R747 R748 R749, 50 R751 R752, 53 R754 R755 R756-59 R762 R764, 65 R766 R770 R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJGGEYG102 ERJGGEYG102 ERJGGEYG103 ERJGGEYG102 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG104 ERJGGEYG104 ERJGGEYG105 ERJGGEYG105 ERJGGEYG103 ERJGGEYG106 ERJGGEYG107 ERJGGEYG108	M. RESISTOR CH 1/10W	2 11 11 22 11 11 44 11 22 11 13 33 11 11		R893 R894 R895 R900-03 SW501 T61 T6701	ERJ6GEYOROO ERJ6GEYOROO ERJ6GEYOROO ERJ6GEYOROO VSS0367-08B EYF6GU EYF6GU	M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 0 SWITCH TEST POINT TEST POINT	1 1 1 1 1	
R747 R748 R749, 50 R751 R752, 53 R754 R755, 55 R766-59 R762 R764, 65 R766 R767-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJGGEYG562 ERJGGEYG102 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG104 ERJGGEYG104 ERJGGEYG104 ERJGGEYG105 ERJGGEYG105 ERJGGEYG105 ERJGGEYG106 ERJGGEYG107 ERJGGEYG108 ERJGGEYG108 ERJGGEYG109 ERJG	M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 1C M. RESISTOR CH 1/10W 2C M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 3. 3K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R894 R895 R900-03 SW501 TG1 TG701	ERJ6GEYG103 ERJ6GEYOROO ERJ6GEYOROO VSS0367-08B EYF6GU EYF6GU	M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 0 SWITCH TEST POINT TEST POINT	1 1 1	
R748 R749, 50 R751 R752, 53 R754 R755 R756-59 R762 R764, 65 R766 R767-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJGGEYG102 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG104 ERJGGEYG104 ERJGGEYG104 ERJGGEYG104 ERJGGEYG105 ERJGGEYG105 ERJGGEYG105 ERJGGEYG106 ERJGGEYG107 ERJGGEYG108 ERJGGEYG108 ERJGGEYG108 ERJGGEYG109	M. RESISTOR CH 1/10W M. RESIST	1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R895 R900-03 SW501 TG1 TG701	ERJ6GEYOROO ERJ6GEYOROO VSS0367-08B EYF6CU EYF6CU EYF6CU	M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 0 SWITCH TEST POINT TEST POINT	1 1 1	1
R749, 50 R751 R752, 53 R754 R755 R756-59 R762 R764, 65 R766 R767-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJGGEYG103 ERJGGEYG102 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG104 ERJGGEYG104 ERJGGEYG105 ERJGGEYG105 ERJGGEYG105 ERJGGEYG105 ERJGGEYG103 ERJGGEYG101 ERJGGEYG103	M. RESISTOR CH 1/10W M. RESIST	22 11 11 14 4 11 13 33 11 11 11 11		R900-03 SW501 TG1 TG701 TP8	ERJ6GEYOROO VSS0367-08B EYF6CU EYF6CU EYF6CU	M. RESISTOR CH 1/10W 0 SWITCH TEST POINT TEST POINT	1 1 1	
R751 R752, 53 R754 R755 R756-59 R762 R764, 65 R766 R767-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81	ERJGGEYG102 ERJGGEYG103 ERJGGEYG103 ERJGGEYG104 ERJGGEYG104 ERJGGEYG105 ERJGGEYG105 ERJGGEYG105 ERJGGEYG103 ERJGGEYG103 ERJGGEYG101 ERJGGEYG103 ERJGGEYG102 ERJGGEYG103	M. RESISTOR CH 1/10W M. RESIST	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		SW501 TG1 TG701 TP8	VSS0367-08B  EYF6CU EYF6CU EYF6CU	SWITCH TEST POINT TEST POINT	1 1	
R752, 53 R754 R755 R756-59 R766-59 R764, 65 R766 R767-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81	ERJGGEYG103 ERJGGEYG103 ERJGGEYG104 ERJGGEYG104 ERJGGEYG104 ERJGGEYG105 ERJGGEYG105 ERJGGEYG105 ERJGGEYG101 ERJGGEYG101 ERJGGEYG103 ERJGGEYG102 ERJGGEYG102 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJG	M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 100K M. RESISTOR CH 1/10W 100K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 1M M. RESISTOR CH 1/10W 1M M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 3.3K	2 1 1 4 1 2 1 3 1 1 1		TG1 TG701 TP8	EYF6CU EYF6CU EYF6CU	TEST POINT TEST POINT	1	
R754 R755 R756-59 R762 R764. 65 R766 R767-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJGGEYOROO ERJGGEYG103 ERJGGEYG104 ERJGGEYOROO ERJGGEYOROO ERJGGEYG105 ERJGGEYG105 ERJGGEYG101 ERJGGEYG101 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG20 ERJGGEYG220 ERJGGEYG222	M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 20X M. RESISTOR CH 1/10W 20X M. RESISTOR CH 1/10W 20X M. RESISTOR CH 1/10W 3.3K	1 1 4 1 2 1 3 3 1 1 1 1 1 1 1		TG1 TG701 TP8	EYF6CU EYF6CU EYF6CU	TEST POINT TEST POINT	1	
R755 R756-59 R762 R764-65 R766-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJGGEYG103 ERJGGEYG104 ERJGGEYOROO ERJGGEYOROO ERJGGEYG105 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG52 ERJGGEYG52 ERJGGEYG52 ERJGGEYG522 ERJGGEYG522 ERJGGEYG522	M. RESISTOR CH 1/10W 100K M. RESISTOR CH 1/10W 100K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 10M M. RESISTOR CH 1/10W 10M M. RESISTOR CH 1/10W 10M M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 200 M. RESISTOR CH 1/10W 200 M. RESISTOR CH 1/10W 200 M. RESISTOR CH 1/10W 3.34K	1 4 1 2 1 3 1 1 1 1 1 1 1		TG701 TP8	EYF6CU EYF6CU	TEST POINT	1	
R756-59 R762 R764, 65 R766 R767-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81	ERJGGEYG104 ERJGGEYOROO ERJGGEYOROO ERJGGEYG105 ERJGGEYG103 ERJGGEYG101 ERJGGEYG101 ERJGGEYG103 ERJGGEYG102 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG20 ERJGGEYG220 ERJGGEYG222 ERJGGEYG222	M. RESISTOR CH 1/10W 100K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 10M M. RESISTOR CH 1/10W 10M M. RESISTOR CH 1/10W 10M M. RESISTOR CH 1/10W 100M M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 200 M. RESISTOR CH 1/10W 200 M. RESISTOR CH 1/10W 200 M. RESISTOR CH 1/10W 3.3K	4 1 2 1 3 1 1 1		TG701 TP8	EYF6CU EYF6CU	TEST POINT	1	
R762 R764, 65 R766 R767-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJGGEYOROO ERJGGEYOROO ERJGGEYG105 ERJGGEYG103 ERJGGEYF473 ERJGGEYG101 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103 ERJGGEYG562 ERJGGEYG220 ERJGGEYG220 ERJGGEYG332 ERJGGEYG222	M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 10M M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 2 M. RESISTOR CH 1/10W 2.2 M. RESISTOR CH 1/10W 3.3K	1 2 1 3 1 1 1		TP8	EYF6CU			
R764, 65 R766 R767-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJGGEYOROO ERJGGEYG105 ERJGGEYG103 ERJGGEYF473 ERJGGEYG103 ERJGGEYG103 ERJGGEYG562 ERJGGEYG220 ERJGGEYG332 ERJGGEYG222	M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 1M M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 20 M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 3. 3K	2 1 3 1 1 1				TEST POINT	1	
R766 R767-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJGGEYG105 ERJGGEYG103 ERJGGEYF473 ERJGGEYG101 ERJGGEYG103 ERJGGEYG562 ERJGGEYG220 ERJGGEYG332 ERJGGEYG222	M. RESISTOR CH 1/10W 1MM. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 5.6K M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 3.3K	1 3 1 1 1				TEST FORM	├-	
R767-69 R770 R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJ66EYF473 ERJ66EYF473 ERJ66EYG101 ERJ6GEYG103 ERJ6GEYG562 ERJ6GEYG220 ERJ6GEYG332 ERJ66EYG222	M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 5.6K M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 3.3K	3 1 1 1		VC1				
R770 R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJ6GEYF473 ERJ6GEYG101 ERJ6GEYG103 ERJ6GEYG562 ERJ6GEYG220 ERJ6GEYG332 ERJ6GEYG222	M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 5.6K M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 3.3K	1 1 1		701		TRIMMER	1	
R771 R772 R773 R774 R775, 76 R777 R778-81 R782	ERJ6GEYG101 ERJ6GEYG103 ERJ6GEYG562 ERJ6GEYG220 ERJ6GEYG332 ERJ6GEYG222	M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 5.6K M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 3.3K	1 1			VCV0049	IKIMMEK		
R772 R773 R774 R775, 76 R777 R778-81 R782	ERJ6GEYG103 ERJ6GEYG562 ERJ6GEYG220 ERJ6GEYG332 ERJ6GEYG222	M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 5.6K M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 3.3K	1		X1	VSX0641	CRYSTAL OSCILLATOR	1	
R773 R774 R775, 76 R777 R778-81 R782	ERJ6GEYG562 ERJ6GEYG220 ERJ6GEYG332 ERJ6GEYG222	M. RESISTOR CH 1/10W 5. 6K M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 3. 3K	1		X500	VSX0641	CRYSTAL OSCILLATOR	1	
R774 R775, 76 R777 R778-81 R782	ERJ6GEYG220 ERJ6GEYG332 ERJ6GEYG222	M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 3.3K			X701	VSX0465	GRYSTAL OSCILLATOR	-	
R775, 76 R777 R778-81 R782	ERJ6GEYG332 ERJ6GEYG222	M. RESISTOR CH 1/10W 3.3K					CRYSTAL OSCILLATOR	1	
R777 R778-81 R782	ERJ6GEYG222				X702 X703	VSX0498 VSX0615	CRYSTAL OSCILLATOR	1	
R778-81 R782			-		^/00	1000010	AVISIVE ASSISTEDING	<del>  '</del>	
R782	VKE0034E332	M. RESISTOR CH 1/10W 2.2K	-		······	ļ	MISCELLANEOUS	-	
	UDEAGATE 470	M. RESISTOR CH 1/10W 3.3K					IN JOLLLANGUUS	-	
		M. RESISTOR CH 1/10W 47	-		<b></b>	VIII 2142	CARD PULLER	1	
		M. RESISTOR CH 1/10W 5.6K			ļ	VML2143	GARD PULLER	1	
		M. RESISTOR CH 1/10W 10K				VML2144	UNNU FULLER	<u> </u>	
		M. RESISTOR CH 1/10W 5.6K	_					├	
		M. RESISTOR CH 1/10W 82	-		<del></del>	VEDOSSESS	EA V OUT C P A	١,	(RTL)
		M. RESISTOR CH 1/10W 47			<u> </u>	VEP83352B	F4 V OUT C. B. A.	-	(V) 1-7
		M. RESISTOR CH 1/10W 5.6K			ļ			├─	
	VRE0034E103	M. RESISTOR CH 1/10W 10K			0100	EGEV1CV470Q	E, CAPACITOR CH 16V 47U	1	
		M. RESISTOR CH 1/10W 22K			G100 G101		C. CAPACITOR CH 25V 0. 1U	1	<u></u>
		M. RESISTOR CH 1/10W 68K					E. CAPACITOR CH 16V 47U	-	
		M. RESISTOR CH 1/10W 390K			C102			1	
	VRE0034E333	M. RESISTOR CH 1/10W 33K	$\overline{}$		C103				
		M. RESISTOR CH 1/10W 22K	2		C150-59			4	
		M. RESISTOR CH 1/10W 100K	1 1		G200-03		C. CAPACITOR CH 25V 0. 1U	2	
		M. RESISTOR CH 1/10W 1K	_		G250, 51	ļ	C. CAPACITOR CH 25V 0. 1U	1	
		M. RESISTOR CH 1/10W 1K			G252		E. CAPACITOR CH 16V 10U C. CAPACITOR CH 25V 0.1U	ļ	
		M. RESISTOR CH 1/10W 0			G253-57			1	
	VRE0034E103	M. RESISTOR CH 1/10W 10K			G258		C. CAPACITOR CH 50V 150P		<del></del>
		M. RESISTOR CH 1/10W 1K			G300-02		C. CAPACITOR CH 25V 0. 1U E. CAPACITOR CH 16V 10U	1	
		M. RESISTOR CH 1/10W 2.2K	4		G303				
		M. RESISTOR CH 1/10W 47K	1		G304		C. GAPACITOR CH 25V 0. 1U E. CAPACITOR CH6, 3V 100U	1	
		M. RESISTOR CH 1/10W 100K			G305		C. CAPACITOR CH 25V 0. 1U	2	
		M. RESISTOR CH 1/10W 10K			C306 07 C308	EGEVICVIOOQ	E. CAPACITOR CH 16V 10U		
		M. RESISTOR CH 1/10W 820K	1		G309, 10		C. CAPACITOR CH 25V 0. 1U	2	
		M. RESISTOR CH 1/10W 1K					E. CAPACITOR CH 50V 2. 2U	_	
		M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 47	-		G311		C. CAPACITOR CH 25V 0. 1U	-	The second secon
					G312		E. CAPACITOR CH 50V 2. 2U		
		M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 0	<del>-</del>		G314-16		C. CAPACITOR CH 25V 0. 1U	ļ	
		M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 10K			C314-16		E. CAPACITOR CH 50V 2. 2U	1	
		M. RESISTOR CH 1/10W 0	-		G318-23		G. CAPACITOR CH 25V 0. 1U	6	<u> </u>
					G318-23 G324		E. CAPACITOR CH 16V 10U	1	
		M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/10W 0	+		C325, 26		C. CAPACITOR CH 25V 0. 1U	2	
		M. RESISTOR CH 1/10W 5.6K			G327		C. CAPACITOR CH 50V 12P	1	
		M. RESISTOR CH 1/10W 5. 0R	+		G328		G. CAPACITOR CH 50V 56P	;	
		M. RESISTOR CH 1/10W 1K			G329, 30		C. CAPACITOR CH 25V 0. 1U	2	
					G329, 30 G331		C. CAPACITOR CH 50V 12P	1	·
		M. RESISTOR CH 1/10W 10K			G332		C. CAPACITOR CH 25V 0. 1U	1	<u> </u>
		M. RESISTOR CH 1/10W 22K					C. CAPACITOR CH 25V 0. 10	1	· · · · · · · · · · · · · · · · · · ·
		M. RESISTOR CH 1/10W 1K					C. CAPACITOR CH 25V 0. 1U	2	<u> </u>
		M. RESISTOR CH 1/10W 47					C. CAPACITOR CH 50V 39P	2	
		M. RESISTOR CH 1/10W 1K					C. CAPACITOR CH 50V 39P	1	
		M. RESISTOR CH 1/10W 47 M. RESISTOR CH 1/10W 1K	-		G339		C. CAPACITOR CH 50V 68P	1	
					C340	I	C. CAPACITOR CH 50V 120P		
					G342		C. CAPACITOR CH 50V 120P	+	
		M. RESISTOR CH 1/10W 47					C. CAPACITOR CH 50V 68P	1	<del> </del>
		M. RESISTOR CH 1/10W 1K	-		G344		C. CAPACITOR CH 50V 120P	1	
		M. RESISTOR CH 1/10W 390K			G344 G346		G. CAPACITOR CH SOV 120P	1	
		M. RESISTOR CH 1/10W 10K		I				H	
		M. RESISTOR CH 1/10W 22K	_		G347			2	
		M. RESISTOR CH 1/10W 1K	_				E. CAPACITOR CH 16V 10U	1	
		M. RESISTOR CH 1/10W 390K			G350		C. CAPACITOR CH 50V 56P		<u></u>
		M. RESISTOR CH 1/10W 47					C. CAPACITOR CH SOV 47P	1	
R891	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1		C352-66	EGUX IE 104ZFV	C. CAPACITOR CH 25V 0. 1U	15	
			-					<u> </u>	<del> </del>
	<u></u>	L	.1			l	<u> </u>	L	<u> </u>

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Part No. Part Name & DescriptionPcs Remarks Ref. No Part No. Part Name & DescriptionPcs Remarks EGUX1E104ZFV C. CAPACITOR CH 25V ECUX1H470JCV C. CAPACITOR CH 50V C815 ECUX1E104ZFV G. CAPACITOR CH 25V G401 EGUX1H47OJGV G. CAPACITOR CH 50V C816-18 ECUX1E104ZFV G. CAPACITOR CH 25V C819 EGUX1H22OJGV C. CAPACITOR CH 50V 22P 0. 1U G402-04 FGUX1F104ZFV C CAPACITOR CH 25V C405 FCUX1H330JCV C CAPACITOR CH 50V 33P 1 C820 0. 1U C406 ECUX1E104ZFV C. CAPACITOR CH 25V 0 111 1 C821 ECUX1H470JCV C. CAPACITOR CH 50V 47P G407 EGUX1H271JCV C CAPACITOR CH 50V 270P C822 ECUX1H22OJCV G. CAPACITOR CH 50V 22P C823-25 EGUX1E104ZFV C. GAPACITOR CH 25V G409, 10 EGUX1E104ZFV G. CAPAGITOR CH 25V 0. 1U 0.10 C411 ECUX1H270JCV C. CAPACITOR CH 50V 27P C826 ECUX1H220JGV G. CAPACITOR CH 50V 22P EGUX1H470JGV C. GAPAGITOR CH 50V EGUX1E104ZFV C. CAPACITOR CH 25V G827 47P C412, 13 0 111 ECUX1H020CGV C. CAPACITOR CH 50V 2P C414 FCUX1H271JCV C CAPACITOR CH 50V 270P C828 C415 ECUXIE1047EV G CAPACITOR CH 25V 0.10 C829-32 FCUX1E104ZFV C. CAPACITOR CH 25V 0 111 ECUX1E104ZFV C. CAPACITOR CH 25V FCFV1CV1000 E. CAPACITOR CH 16V 1011 C500 0. 1U 0833 C501 ECEV1CV100Q E. CAPACITOR CH 16V G834 ECUX1H150JCV C. CAPACITOR CH 50V 15P C850 EGUX1H470JGV C. GAPAGITOR CH 50V ECUX1H221JCV C. CAPACITOR CH 50V 220P C502 ECUXIH220JCV C GAPACITOR CH 50V C503 ECUX1H821JGV C. CAPACITOR CH 50V 820P C851 22P C504 ECUX1E104ZFV IC. CAPACITOR CH 25V C852-55 ECUX1E104ZFV C. CAPACITOR CH 25V 0 10 0.10 EGEVICVIOOQ E. CAPACITOR CH 16V 0856 EGUX1H390JCV C. CAPACITOR CH 50V C505 100 39P C506 07 EGUX1E104ZFV G. GAPAGITOR CH 25V 0. 1U C857 ECUX1H070DCV | G. GAPAGITOR CH 50\ 7P ECEVICV4700 E. CAPACITOR CH 16V ECEVICVIOOQ E. CAPACITOR CH 16V G900 100 47U C508 C509 ECUX1E104ZFV C. CAPACITOR CH 25V 0. 10 C901 ECUX1E104ZFV G. GAPACITOR CH 25V 0. 1U C510, 11 ECEVICATION E. CAPACITOR CH 16V G902 ECUX1H103KBV C. CAPACITOR CH 50V 0.01U 100 ECUX1H103KBV C. CAPACITOR CH 50V 0.01U EGUX1H181JCV C. CAPACITOR CH 50V 180P C512 0903 C513-15 ECUX1E104ZFV C. CAPACITOR CH 25V 0. 1U C904, 05 ECUX1H103KBV C. GAPACITOR CH 50V 0.010 ECUX1H22OJCV G. CAPAGITOR CH 50V C516 EGEVICV4700 E CAPACITOR CH 16V ECUX1E104ZFV G. CAPACITOR CH 25V C907 EGUX1E104ZFV C. CAPACITOR CH 25V 0. 10 C517 0.10 ECUX1H100DCV C. CAPACITOR CH 50V C908 ECUXIHIBOJCV C. CAPACITOR CH 50V 18P C518 10P C519-21 ECUX1E104ZFV G. CAPACITOR CH 25V 0.10 3 C909 FCUXTH680JCV IC CAPACITOR CH 50V 68P G522 0. 1U EGUX1H22OJGV C. CAPACITOR CH 50V 22P C910, 11 ECUX1E104ZFV C. CAPACITOR CH 25V ECUX1E104ZFV C. CAPACITOR CH 25V ECEV1HN0100-E-CAPACITOR CH-50V C523-25 0.10 C912 -111 G526 ECUX1H271JCV C. CAPACITOR CH 50V C913 ECUX1H330JCV G. CAPACITOR CH 50V 33P C527 ECUX1H151JCV C. CAPACITOR CH 50V C914-16 ECUX1E104ZFV C. CAPACITOR CH 25V 0. 1U ECUX1E104ZFV C. GAPACITOR CH 25V C917 ECUX1H101JCV C. CAPACITOR CH 50V C528 100P 0.10 C529 EGUX1H820JCV C. GAPACITOR CH 50V 82P C918 FGUX1H220JCV IC CAPACITOR CH 50V 22P C530-33 EGUX1E104ZFV C. CAPACITOR CH 25V 0. IU G919 FCFV1CV4700 F CAPACITOR CH 16V 4711 ECUX1H820JCV C. CAPACITOR CH 50V ECUX1E104ZFV C. CAPACITOR CH 25V C534 82P **G920** 0. 1U C535-38 EGUX1E104ZFV C. CAPACITOR CH 25V C921 ECEV1CV470Q E. CAPACITOR CH 16V C539 EGUX1H22OJCV G. CAPACITOR CH 50V 22P C922 ECUX1H101JCV C. CAPACITOR CH 50V 100P ECUX1E104ZFV | C. CAPACITOR CH 25V EGUX1H470JGV C. CAPACITOR CH 50V G540, 41 0. 1U 2 G923 47P **G542** EGUX1H22OJCV C. CAPACITOR CH 50V 22P **G924** ECUX1H103KBV C. CAPACITOR CH 50V 0.01U EGUX1E104ZFV G. CAPACITOR CH 25V C925 ECUX1E104ZFV C. CAPACITOR CH 25V C543 0. 1U 0. 1U **C544** ECUX1H330JGV C. CAPACITOR CH 50V C926 ECEVICV4700 E. CAPACITOR CH 16V **C545** ECUX1H270JCV C. CAPACITOR CH 50V 27P **G927** EGUX1H390JCV G. CAPAGITOR CH 50V EGUXTH221JGV C. CAPACITOR CH 50V ECUX1E104ZFV C. CAPACITOR CH 25V C546 220P C928 0.10 FCEV1CV4700 F. GAPACITOR CH 16V G548 EGUX1H270JCV C. CAPAGITOR CH 50V 27P C929 47U C550 ECUXTH101JCV C. CAPACITOR CH 50V 0930 ECUX1E104ZFV C. CAPACITOR CH 25V 0.10 100P E. CAPACITOR CH 16V ECUMIC473KBV G. CAPACITOR CH 16V 0. 047U ECEV1CV4700 G551 C931 47U G552 ECEVICATION E CAPACITOR CH 16V C932 ECUX1E104ZFV C. CAPACITOR CH 25V 0. 1U EGUX1E104ZFV G. CAPACITOR CH 25V EGUX1H103KBV C. CAPACITOR CH 50V G553 C933 0. 01U EGUM1C473KBV C. CAPACITOR CH 16V 0. 047U ECUX1E104ZFV C. CAPACITOR CH 25V C554 C934, 35 0.10 C555 ECEVICATION E. CAPACITOR CH 16V 100 C936 ECEVICV4700 E. CAPACITOR CH 16V 4711 EGUX1E104ZFV C. CAPACITOR CH 25V C937 ECUX1H103KBV C. CAPACITOR CH 50V 0.01U C556 0.10 C557 ECEVICVIOOQ E. CAPACITOR CH 16V 10U C938 EGUX1E104ZFV C. CAPACITOR CH 25V 0. 1U ECUMIC473KBV C. CAPACITOR CH 16V 0. 047U C939 ECEVIHNO100 E. CAPACITOR CH 50V C558 10 ECUXTE104ZFV C. CAPACITOR CH 25V ECUX1H102JV C. CAPACITOR CH 50V 1000P C559, 60 0. 1U 2 **G940** ECUX1H220JCV C. CAPACITOR CH 50V 22P C941, 42 EGUX1E104ZFV C. CAPACITOR CH 25V C561, 62 2 0. 1U C563, 64 ECUX1E104ZFV G. CAPACITOR CH 25V 0. 1U C945 ECEV1HN010Q E. CAPACITOR CH 50V 10 C565 ECUXTH100DCV C. CAPACITOR CH 50V 10P C946 EGUX1E104ZFV C. CAPACITOR CH 25V 0.10 C947 ECEV1CV4700 E. CAPACITOR CH 16V G566 FGUX1H470JCV C GAPACITOR CH 50V 47P 1 47U C567 ECUX1H330JCV C. CAPACITOR CH 50V 33P 1 C948 49 FCUX1F1047FV C CAPACITOR CH 25V 0 18 C568, 69 EGUX1E104ZFV C. CAPACITOR CH 25V 0. 10 C1000 ECEV1CV4700 E. CAPACITOR CH 16V 47U 2 ECUX1E104ZFV C. CAPACITOR CH 25V G570 ECEVOJV470Q E. CAPACITOR CH6. 3V 47U C1001 0. 1U C571 ECUX1E104ZFV C. CAPACITOR CH 25V 0. 1U C1002 ECUX1H82OJCV C. CAPACITOR CH 50V 82P ECEVOJV4700 E. CAPACITOR CH6. 3V 47U C1003 ECEVICVIOOQ E. CAPACITOR CH 16V C572 100 EGUX1E104ZEV G CAPACITOR CH 25V EGUX1E104ZEV C CAPACITOR CH 25V 0.10 C1004 C573-76 0.10 C600~06 EGUX1E104ZFV G. GAPAGITOR CH 25V O. 1U C1005 EGEVICVIOOD | E. CAPACITOR CH 16V 108 C700-03 EGUX1E104ZFV C. CAPACITOR CH 25V O. 1U C1006-12 EGUX1E104ZFV C. CAPACITOR CH 25V 0. 1U C800, 01 EGUX1H22OJGV C. CAPAGITOR CH 50V 22P C1013 ECEVICVIOOQ E. CAPACITOR CH 16V ECEVICVIOOQ E. CAPACITOR CH 16V 100 EGUX1H103KBV C. CAPACITOR CH 50V 0.01U C802 C1014 ECUX1E104ZFV C. CAPACITOR CH 25V EGUX1E104ZFV C. CAPAGITOR CH 25V G1015-18 C803, 04 0. 1U 0. 1U 0805 ECUXIHO2OCCV C CAPACITOR CH 50V 2P C1019 FCFV1EN3R3Q F CAPACITOR CH 25V 3.30 0. 1U C806 EGUX1H121JCV C. GAPACITOR CH 50V 120P G1020 EGUX1E104ZFV G. CAPACITOR CH 25V ECEVICATION E. CAPACITOR CH 16V ECEV1CV470Q C807 100 C1021 E. CAPACITOR CH 16V 470 C808, 09 EGUX1E104ZFV G. CAPACITOR CH 25V 0. 1U C1023 EGUX1E104ZFV C. CAPACITOR CH 25V 0. 1U EGUX1H103KBV C. CAPACITOR CH 50V 0.01U ECUX1H102JV C. CAPACITOR CH 50V G1024 C810 1000P EGUX1E104ZFV G. GAPAGITOR CH 25V C811-14 0. 1U C1025-27 FCUX1F1047FV C CAPACITOR CH 25V 0.10 3

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Ref. No.		Part Name & DescriptionP	cs Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
		G. CAPACITOR CH 50V 47P	2			FILTER	1	
		C. CAPACITOR CH 50V 68P	1	FL1150-53	VLF1016A223	FILTER	4	
		G. GAPAGITOR CH 25V O. 1U	1					
		C. CAPACITOR CH 50V 0.01U	1			IC	2	
		G. GAPAGITOR CH 25V 0.1U	1	1C152	74ALS245ASJ	10	2	
		C. CAPACITOR CH 50V 0.01U	1		74ALS541SJ	1C	1	
		C. CAPACITOR CH 25V 0.1U	4	IC156	VS12391 SN74S1051NS	IG	_ <u>'</u>	
		C, CAPACITOR CH 50V 0.01U E, CAPACITOR CH 50V 1U	1	IC158	MC74HC574AF	IC	- <u>i</u>	
		E. GAPAGITOR CH 50V 1U G. GAPAGITOR CH 25V 0.1U	1	10150	UPD71055GB	10	1	
		C. CAPACITOR CH 50V 1000P	1	10160	MC74HC574AF	IC	1	
		C. CAPACITOR CH 25V 0. 1U	2	10161	SN74S1051NS	1 <b>C</b>	1	
		G. CAPACITOR CH 25V 0.1U	2	IC163	MC74HG74AF	IG	1	
		G. CAPACITOR CH 25V 0.1U	1	1C200, 01	MC74HC574AF	10	2	
		E. CAPACITOR CH 16V 10U	1	10202	MC74HC541AF	1C	_1	
C1105	EGUX1E104ZFV	G. GAPACITOR CH 25V 0. 1U	1	1C2O3	TC7SH08FU	1C	1	
		E. CAPACITOR CH 16V 10U	1	10250	XG62AP3002P	10	1	
		C. CAPACITOR CH 25V 0.1U	2	10251	UPD65840G024	IG	1	
		E. GAPACITOR CH 16V 10U	1	10300	NJM082BM	1C	1	
G1110		C. CAPACITOR CH 50V 680P	1	10301	NJMO84M MG74HG244AF	IG	1	
		G. GAPACITOR CH 25V 0. 1U G. GAPACITOR CH 50V 15P	3		MB40778PF	IC	3	
C1114			6		EL4089GS	1G	3	
G1115-20 G1121		G. CAPACITOR CH 25V 0.1U E. CAPACITOR CH 16V 10U	1		MC14053BF	10	2	
G1121 G1122		C. CAPACITOR CH 25V 0.1U	1	1C500	NJM082BM	IC	1	
C1122		C. CAPACITOR CH 50V 100P	1	1C502	MC74HC4053F	IC	1	
		G. CAPACITOR CH 25V 0.1U	3	I G503	M51272FP	IC	1	
		C. CAPACITOR CH 50V 470P	2	10600	74ALS541SJ	IC	1	
		C. CAPACITOR CH 25V 0.1U	3	IC601-03	MC10H124M	1 <b>C</b>	3	
G1150		C. CAPACITOR CH 25V 0. 1U	1	10700	VS12403	10	1	
C1151	EGEV1EV100Q	E. CAPACITOR CH 25V 10U	140	1 C800	EL4089GS	IC	_1	
C1152	ECUX1E104ZFV	C. CAPACITOR GH 25V 0. 1U	1	1G801	NJM082BM	IC	1	
C1153	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	10802	NJM2534V	IC	1	
G1154	ECUX1E104ZFV	G. CAPACITOR CH 25V 0. 1U	1	10804	NJM2534V	IC	1	
C1155		E. CAPACITOR CH 16V 10U	1	10805	AD828AR	10	1	
C1156		C. CAPACITOR CH 25V 0.1U	1	10850	NJM2534V	IC .	1	
		E. GAPACITOR CH 25V 10U	2	1G900	AN91A12S NE521D	IC IC	1	
		E. CAPACITOR CH 16V 10U	2	1C902 1C904	MC74HC04AF	IC	1	
C1161		E. GAPACITOR CH 25V 10U C. CAPACITOR CH 25V 0.1U	1		MM74HC221AM	10	2	
G1162 G1163	1	G. CAPACITOR CH 25V 0.1U E. CAPACITOR CH 25V 10U	1	1G910	MG74HC125AF	10	1	
C1164		C. CAPACITOR CH 25V 0. 1U	1	IG913	NJM082BM	10	1	
G1165		E. CAPACITOR CH 16V 10U	1	10915	SN74LS221NS	1C .	1	
		C. CAPACITOR CH 25V 0. 1U	2	IC916	NJM082BM	10	1	
C1168		E. CAPACITOR CH 16V 10U	1	IC923-25	TC7SH00FU	IC	3	
C1169	ECEV1EV100Q	E. CAPACITOR CH 25V 10U	1	1C1000	NE521D	IC	1	
G1170-75	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	IC1001	DAG10GS	10	1	
C1176	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	101002	MC14053BF	16	1	
G1177	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	IC1003	NJM082BM	10	1	
C1178		E. CAPACITOR CH 16V 10U	1	IG1004	TG7SH08FU	I C	1	
G1179		G. CAPACITOR CH 25V 0. 1U	1	1C1005	NJM084M	10	<u> </u>	
C1180		E. CAPACITOR CH 16V 10U	1	101015	TC7SH00FU	10	1	
G1181		C. CAPACITOR CH 25V 0. 1U	1	101051	NJMO82BM SN74AS74NS	10	1	ł.,
C1182		E. CAPACITOR CH 16V 10U	1	101053	SN74AS244NS	IC	2	<del></del>
C1183	1	C. GAPACITOR CH 25V 0. 1U E. GAPACITOR CH 16V 10U	1	101055, 50	SN74AS74NS	IC	1	
G1184 G1185		C. CAPACITOR CH 16V 10U	1	101057 101058	SN74AS244NS	10	1	
C1186		E. GAPACITOR CH 16V 10U	1	101000	NJM084M	IC	1	
		C. CAPACITOR CH 25V 0.1U	9	IC1102	DAC10GS	IC	1	
		E. CAPACITOR CH 16V 10U	8	101103	SN74LS221NS	10	1	
C1204-11		C. CAPACITOR CH 25V 0.1U	8	101106	UPD65650J203	IC	1	
				IC1107, 08	MC74HC04AF	IC	2	
D400	MA152K	DIODE	1	IC1113	MG74HG244AF	IC	1	
D500		DIODE	1	IC1114	MC74HC00AF	IC	1	
D501, 02	MA335-R	DIODE	2		SN74LS221NS	IC .	2	
D503	MA152K	DIODE	1	101150	NJM78LO9UA	IC	1	
D900	MA142WK	DIODE	1	101151	NJM78LO5UA	10	1	
D901	MA152K	DIODE	1	101152	NJM79LO5UA	IC .	1	
D1000	MA142K	DIODE	1	101153	AN78N09	IG	1	
D1001	MA335-R	DIODE	1	101154	AN78N05 AN79N09	IC IC	1	
D1050	MA152K	DIODE	1	101155 101156	NJM78LO9UA	10	1	
D1100	MA142K	DIODE	1	101156	NJM78LOSUA	10	'   1	
FI 00-	VI E1004	CILTED	1	IC1157	NJM79LOSUA	1C		
FL301 FL303	VLF1294 VLF1295	FILTER FILTER	1	IC1159	NJM79LO9UA	IC	1	
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International Content	rks
101-103   MATERIOR   C	
1.100-06   1.100-06	
1,100-06   1,001-06   1,000	
1,000   1,00	
1305.06   1305.06   1305.07   1309   1   1209   1   1   1   1209   1   1   1   1   1   1   1   1   1	
1,000   1,00	
1,000   1,00	
1401   1001   1001   1   1   1   1   1   1	
R802	
ROO	-
1.599	
1.555, QN   1.5054370   0311	
1.559	
1.508	
1.509   VILORIANTES   OIL   1.504   1   800,00   RADIESTOR CH   1/69   1/05   2   1.509   VILORIANTES   OIL   5.604   1   800,00   RADIESTOR CH   1/69   4.71   2   2   1.509   VILORIANTES   OIL   5.604   1   871,00   1   871	
1.509	
1500   VL00163J878   OIL	
1510   VILOPIGAJERS   COLL   C. BUH   1   R312   SPLADEFLATED   M. RESISTOR ON 1/19W   A7   1	
1800   V_00163J120   O011   22M   1   R313   EP_000F4/272   M_RESISTOR_OF_I/TOP_I 2_M_ 1   R316   EP_000F4/270   M_RESISTOR_OF_I/TOP_I 3_0   2   R316   EP_000F4/270   M_RESISTOR_OF_I/TOP_I 3_0   2   R316   EP_000F4/270   M_RESISTOR_OF_I/TOP_I 3_0   2   EP_000F4/270   M_RESISTOR_OF_I/TOP_I 3_0   1   EP_000F4/270   M_RESISTOR_OF_I/TOP_I/TOP_I 3_0   1   EP_000F4/270   M_RESISTOR_OF_I/TOP_I/TO	
L800   VLQ0163J200   OOIL   22MH	
LBSD	
Lego	
1.000   VI.00163.J271   ODIL   100.H   1   8317   \$RJASETYJATO   RESISTOR OH 1/168   47   1   1   1   1   1   1   1   1   1	
LOST   VLQ0163A320   COLL   20UH   1   R318   ER.ASPEYDOW   NESTSTOR CHI/TOW   30   1	
1002	
1,003-08   VI,00163,4470   031L   47UH   6   8322   82,000   1,000	
1,000   VI_00163J470   O11	
1001   VIQ0163J221   ODIL   220H   1   R323 24   ERJ30EV/R00   R. RESISTOR CH 1/16W   0   1   1   1004   VIQ0163J272   ODIL   220H   2   R326   R326   R326EV/R000   R. RESISTOR CH 1/16W   0   1   1   1004   VIQ0163J272   ODIL   220H   2   R329-32   R326EV/R000   R. RESISTOR CH 1/16W   0   1   1   1   1   1   1   1   1   1	
11002.03   VI.00163J220   OIL   22UH   2   R326   ERJSEYORDO   J. RESISTOR CH 1/16W   O   1	
L1002_03   V.00163J2/20   COIL   Z2UH   Z     R326   ERJSGEYONDO   M. RESISTOR CH 1/16W   O   1	
L1004   VL00163JA70   COIL   47UH   1   R329   ERJSGET/MOD   M. RESISTOR CH 1/16W   O   1	
L1100, 01   VL00163J220   ODIL   22UH   2   R329-32   ERJ30ETYJ471   M. RESISTOR CH 17/16W   470   4   R34   ERJ30ETJ30ETJ30ETJ30ETJ30ETJ30ETJ30ETJ30ET	
P1   P2   VJP3454B096   CONNECTOR (MALE)   2   R335   ERJ36EY/J022   R.ES.ISTOR CH 1/16W   2. 2K   1	
P1.P2   VJP34548006   CONNECTOR (MALE)   2   R335   ERJ38EYORO   M. RESISTOR CH 1/16W   330   1	
P3   VP12331	
R337   ERJSGEYJZ22   M. RESISTOR CH 1/16W 2. 2K 1	
Q200	
Q300-05   2SD601A-R   TRANSISTOR   6   R339   ERJ3GEFJ101   M. RESISTOR CH 1/16W   100   1	
Q315-17   Z3D601A-R   TRANSISTOR   3   R341   ERJ3GEYUJ22   M. RESISTOR CH 1/16W   1K   1     Q400   Z802404-C   TRANSISTOR   1   R342   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   1K   1     Q400   Z802404-C   TRANSISTOR   1   R343   ERJ3GEYUJ01   M. RESISTOR CH 1/16W   1K   1   Q401   Q401-Q3   Z80709A-R   TRANSISTOR   3   R344   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   1K   1   Q404, 05   Z80601A-R   TRANSISTOR   2   R345   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   1K   1   Q406, 07   Z80709A-R   TRANSISTOR   2   R347   48   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   1K   1   Q500   Z80709A-R   TRANSISTOR   3   R344   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   1K   1   Q500   Z80709A-R   TRANSISTOR   3   R346   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   1K   1   Q500   Z80709A-R   TRANSISTOR   3   R345   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   1K   1   Q501   Z802295-B   TRANSISTOR   1   R350   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   320   1   Q501, 02   Z802295-B   TRANSISTOR   2   R351   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   320   1   Q503, 04   Z80709A-R   TRANSISTOR   2   R352   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   300   1   Q504   Z80709A-R   TRANSISTOR   2   R355   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   300   1   Q505   Z80709A-R   TRANSISTOR   1   R355   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   300   1   Q506   Z80709A-R   TRANSISTOR   1   R355   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   1K   1   Q509   Z80601A-R   TRANSISTOR   1   R355   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   1K   1   Q500   Z80601A-R   TRANSISTOR   1   R355   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   1K   1   Q501   Z80601A-R   TRANSISTOR   1   R356   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   1K   1   Q503   Z80601A-R   TRANSISTOR   1   R356   ERJ3GEYUJ02   M. RESISTOR CH 1/16W   1K   1   Q504   Z80601A-R   TRANSISTOR   1   R356   ERJ3GEYUJ04   M. RESISTOR CH 1/16W   1K   1   Q505   Z80601A-R   TRANSISTOR   1   R356   ERJ3GEYUJ04   M. RESISTOR CH 1/16W   1K   1   Q504   Z80601A-R   TRANSISTOR   1   R356   ERJ3GEYUJ04   M. RESISTOR CH 1/16W   1K   1   Q505   Z80601A-R   TRANSISTOR   2   R366	
R318, 19   25B709A-R   TRANSISTOR   2   R342   ERJ3GEYJ102   M. RESISTOR CH 1/16W   1K   1   1   1   1   1   1   1   1	
Q400   25C2404-C	
Q401-03   288709A-R   TRANSISTOR   3   R344   ERJ3GEYJ102   M. RESISTOR CH 1/16W   1K   1   1   1   1   1   1   1   1	
Q404, 05   2SB601A-R   TRANSISTOR   2   R345   ERJ3GEYJ101   M. RESISTOR CH 1/16W   100   1     Q406, 07   2SB709A-R   TRANSISTOR   2   R347, 48   ERJ3GEYJ221   M. RESISTOR CH 1/16W   220   2   Q408-10   2SB601A-R   TRANSISTOR   3   R349   ERJ3GEYJ221   M. RESISTOR CH 1/16W   220   2   Q408-10   2SB709A-R   TRANSISTOR   1   R350   ERJ3GEYJ321   M. RESISTOR CH 1/16W   220   1   Q500   2SB709A-R   TRANSISTOR   2   R351   ERJ3GEYJ321   M. RESISTOR CH 1/16W   220   1   Q503, 04   2SB709A-R   TRANSISTOR   2   R351   ERJ3GEYJ321   M. RESISTOR CH 1/16W   380   1   Q506, 07   2SB709A-R   TRANSISTOR   2   R353   ERJ3GEYJ321   M. RESISTOR CH 1/16W   380   1   Q506, 07   2SB709A-R   TRANSISTOR   2   R353   ERJ3GEYJ321   M. RESISTOR CH 1/16W   380   1   Q506, 07   2SB709A-R   TRANSISTOR   2   R354   ERJ3GEYJ321   M. RESISTOR CH 1/16W   320   1   Q508   2SB601A-R   TRANSISTOR   2   R355   ERJ3GEYJ321   M. RESISTOR CH 1/16W   320   1   Q508   2SB601A-R   TRANSISTOR   1   R355   ERJ3GEYJ321   M. RESISTOR CH 1/16W   380   1   Q509   XN6501   TRANSISTOR   1   R356   ERJ3GEYJ321   M. RESISTOR CH 1/16W   390   1   Q511, 12   2SC2295-B   TRANSISTOR   1   R356   ERJ3GEYJ321   M. RESISTOR CH 1/16W   150   1   Q511, 12   2SC2295-B   TRANSISTOR   1   R356   ERJ3GEYJ321   M. RESISTOR CH 1/16W   660   1   Q511, 12   2SC2295-B   TRANSISTOR   1   R359   ERJ3GEYJ424   M. RESISTOR CH 1/16W   660   1   Q514   2SB709A-R   TRANSISTOR   1   R361   ERJ3GEYJ470   M. RESISTOR CH 1/16W   660   1   Q604, 03   2SD601A-R   TRANSISTOR   2   R363   ERJ3GEYJ470   M. RESISTOR CH 1/16W   470   1   Q604, 03   2SD601A-R   TRANSISTOR   2   R364   ERJ3GEYJ470   M. RESISTOR CH 1/16W   470   1   Q604, 03   2SD601A-R   TRANSISTOR   2   R365   ERJ3GEYJ470   M. RESISTOR CH 1/16W   470   1   Q604, 03   2SD601A-R   TRANSISTOR   2   R366   ERJ3GEYJ470   M. RESISTOR CH 1/16W   470   1   Q604, 03   2SD601A-R   TRANSISTOR   1   R366   ERJ3GEYJ470   M. RESISTOR CH 1/16W   470   1   Q604, 03   2SB709A-R   TRANSISTOR   1   R366   ERJ3GEYJ471   M. RESISTOR CH 1/16W   470	
Q404, 05   2SD601A-R   TRANSISTOR   2   R345   ERJ3GEYJ101   M. RESISTOR CH 1/16W   100   1	
Q406, 07   ZSB709A-R   TRANSISTOR   2   R347, 48   ERJ3GEYJ221   M. RESISTOR CH 1/16W   220   2   2   2   2   2   2   2   2	
Q408-10   Z5D601A-R	
OSON   288709A-R   TRANSISTOR   1   R350   ERJ3GEYJ021   M. RESISTOR CH 1/16W   320   1	
R351   ERJ3GEYJ102   M. RESISTOR CH 1/16W 1K   1   1   1   1   1   1   1   1   1	
0501, 02   0503, 04   2SB709A-R   TRANSISTOR   2   R352   ERJ3GEYJ391   M. RESISTOR CH 1/16W   390   1   0505   2SG2295-B   TRANSISTOR   1   R353   ERJ3GEYJ102   M. RESISTOR CH 1/16W   1K   1   1   1   1   1   1   1   1	
R350   R354   R356   R369YJ102   M. RESISTOR CH 1/16W 1K   1   1   1   1   1   1   1   1   1	
R350	
R354   ERJ3GEYJ821   M. RESISTOR CH 1/16W 820   1	
R355   RJ3GEYJ102   M. RESISTOR CH 1/16W   1K   1	
R350	
R357   R358   R369YJ151   M. RESISTOR CH 1/16W 150   1	
R358   RJ30EYJ681   M. RESISTOR CH 1/16W 680   1	
R359   RJ3GEYJ124   M. RESISTOR CH 1/16W 120K 1	
R361   R361   R362   R362   R362   R362   R363   R363   R363   R363   R364   R364   R364   R364   R365	
R802   RR362   RR362   RR362   RR362   RR363   RR363   RR364   RR365   RR365	
R362   R362   R362   R362   R362   R362   R363   R364   R364   R364   R364   R364   R364   R364   R364   R364   R365	
0802, 03   250601A-R   TRANSISTOR   2   R363   ERJ3GEYJ471   M. RESISTOR CH 1/16W   470   1	
R364   R364   R369   R4   R51STOR   R4   R364   R4   R51STOR   R4   R566   R51STOR	
0850         2SA1532-B         TRANSISTOR         1         R366         ERJ3GEYJ121         M. RESISTOR CH 1/16W         120         1           0851         2SB709A-R         TRANSISTOR         1         R367         ERJ3GEYJ470         M. RESISTOR CH 1/16W         47         1           01000         2SB709A-R         TRANSISTOR         1         R368         ERJ3GEYJ102         M. RESISTOR CH 1/16W         1K         1           01001, 02         2SK608-R         TRANSISTOR         2         R369         ERJ3GEYJ471         M. RESISTOR CH 1/16W         470         1           R370         ERJ3GEYJ102         M. RESISTOR CH 1/16W         1K         1         1	
R367   R368   R369EYJ470   M. RESISTOR CH 1/16W   47   1	
Q1000   2SB709A-R   TRANSISTOR   1   R368   ERJ3GEYJ102   M. RESISTOR CH 1/16W   1K   1	
Q1001, 02   2SK608-R   TRANSISTOR   2   R369   ERJ3GEYJ471   M. RESISTOR CH 1/16W   470   1	
R370 ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1	
R370 ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1	
R151, 52   ERJ3GEYJ101   M. RESISTOR CH 1/16W 100   2   R372   ERJ3GEYJ121   M. RESISTOR CH 1/16W 120   1	
KIOO, OF EROOUTION OF 17 TO IN 2	
R166-69 ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 4 R378 ERJ3GEYJ681 M. RESISTOR CH 1/16W 680 1	
R170-80 ERJ3GEYG152 M. RESISTOR CH 1/16W 10K 11 R379 ERJ3GEYG152 M. RESISTOR CH 1/16W 1.5K 1	
R181, 82 ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 2 R380 ERJ3GEYJ681 M. RESISTOR CH 1/16W 680 1	
R183 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R382 ERJ3GEYJ681 M. RESISTOR CH 1/16W 680 1	
R200-21 ERJ3GEYG152 M. RESISTOR CH 1/16W 10K 22 R383 ERJ3GEYG152 M. RESISTOR CH 1/16W 1.5K 1	
	<del></del>
R223, 24 ERJ3GEYJ101 M. RESISTOR CH 1/16W 100 2 R385 VRE0034E752 M. RESISTOR CH 1/10W 7. 5K 1	<del></del>

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Ref. No.	Part No. Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & Description	
R386-88	ERJ3GEYJ222 M. RESISTOR CH 1/16W 2. 2K 3		R555	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1 2
R391, 92	ERJ3GEYJ222 M. RESISTOR CH 1/16W 2. 2K 2		R556, 57	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180 M. RESISTOR CH 1/16W 330	1
R400	ERJ3GEYG332 M. RESISTOR CH 1/16W 3.3K 1		R558	ERJ3GEYJ331		-1
R401	ERJ3GEYG472 M. RESISTOR CH 1/16W 4. 7K 1		R559	VRE0034E301 ERJ3GEYJ102	M. RESISTOR CH 1/10W 300	1
R402	ERJ3GEYJ153 M. RESISTOR CH 1/16W 15K 1		R560		M. RESISTOR CH 1/16W 47	1
R403	VRE0034E151 M. RESISTOR CH 1/10W 150 1		R561	ERJ3GEYJ470	M. RESISTOR CH 1/16W 1K	2
R404	ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1		R562, 63	ERJ3GEYJ102		1
R405	ERJ3GEYG472 M. RESISTOR CH 1/16W 4.7K 1		R564	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390 M. RESISTOR CH 1/16W 3.3K	11
R406, 07	ERJ3GEYJ221 M. RESISTOR CH 1/16W 220 2	·	R565	ERJ3GEYG332	M. RESISTOR CH 1/16W 10K	1
R408	ERJ3GEYJ222 M. RESISTOR CH 1/16W 2. 2K 1		R566 R567, 68	ERJ3GEYJ103	M. RESISTOR CH 1/16W 5. 6K	2
R409	VRE0034E752 M. RESISTOR CH 1/10W 7.5K 1			ERJ3GEYJ562	M. RESISTOR CH 1/16W 22K	2
R410	ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1			VRE0034E301	M. RESISTOR CH 1/10W 300	1
R411	ERJ3GEYJ151 M. RESISTOR CH 1/16W 150 1		R571 R572	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1
R412	ERJ3GEYG332 M. RESISTOR CH 1/16W 3.3K 1		R573	ERJ3GEYJ102	M. RESISTOR CH 1/16W 3.3K	1
R413	ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1				M. RESISTOR OH 1/16W 47	1
R414	ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 1		R574	ERJ3GEYJ470	M. RESISTOR CH 1/16W 1.5K	1
R415, 16	ERJ3GEYJ221 M. RESISTOR CH 1/16W 220 2		R575	ERJ3GEYG152		1
R417	VRE0034E221 M. RESISTOR CH 1/10W 220 1		R576	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1
R418-	VRE0034E121 M. RESISTOR CH 1/10W 120 1		R577	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1
R419	VRE0034E681 M. RESISTOR CH 1/10W 680 1		R578	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1
R420	VRE0034E151 M. RESISTOR CH 1/10W 150 1	<u> </u>	R579	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1
R421	ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 1		R580	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1
R422	VRE0034E121 M. RESISTOR CH 1/10W 120 1		R581	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1
R423, 24	VRE0034E271 M. RESISTOR CH 1/10W 270 2		R600	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	10
R425	ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 1		R601-10	ERJ3GEYJ560		10
R426	VRE0034E121 M. RESISTOR CH 1/10W 120 1		R611-34	ERJ3GEYJ681		24
R427	VRE0034E221 M. RESISTOR CH 1/10W 220 1		R635-58	ERJ3GEYJ330		24
R428	VRE0034E181 M. RESISTOR CH 1/10W 180 1		R700, 01	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2
R429	ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1		R800, 01	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	_2
R430	ERJ3GEYJ471 M. RESISTOR CH 1/16W 470 1		R802	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1
R431	ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 1		R803	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1
R432	ERJ3GEYJ471 M. RESISTOR CH 1/16W 470 1		R804	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1
R433	ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 1		R806	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1
R434, 35	ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 2		R810	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1
R500	ERJ3GEYJ821 M. RESISTOR CH 1/16W 820 1		R812	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1
R502, 03	ERJ3GEYG472 M. RESISTOR CH 1/16W 4.7K 2	· · · · · · · · · · · · · · · · · · ·	R813, 14	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2
R504	ERJ3GEYJ471 M. RESISTOR CH 1/16W 470 1		R815	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1
R505	ERJ3GEYJ101 M. RESISTOR CH 1/16W 100 1		R816	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1
R506	ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1		R817	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1
R507	ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1		R818, 19	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2
R509	ERJ3GEYJ393 M. RESISTOR CH 1/16W 39K 1		R820	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1
·	ERJ3GEYG332 M. RESISTOR CH 1/16W 3.3K 1		R821	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1
R510			R822	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1
R511			R823	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	i
R513			R824	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1
R514	21107021711		R825	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1
R515	4		R826		M. RESISTOR CH 1/16W 2.2K	1
R516						i
R517	ERJ3GEYG152 M. RESISTOR CH 1/16W 1.5K 1 FRJ3GEYJ470 M. RESISTOR CH 1/16W 47 1		R828 R829, 30	ERJ3GEYG152	M. RESISTOR CH 1/10W 1K  M. RESISTOR CH 1/16W 1.5K	2
R518				ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3
R519, 20	ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 2		R831-33 R834-36	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	3
R521	ERJ3GEYG152 M. RESISTOR CH 1/16W 1.5K 1					1
R522	ERJ3GEYJ330 M. RESISTOR CH 1/16W 33 1		R837	ERJ3GEYJ563		3
R523	ERJ3GEYJ823 M. RESISTOR CH 1/16W 82K 1		R838-40	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1
R524	ERJ3GEYJ681 M. RESISTOR CH 1/16W 680 1		R841	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1
R525	ERJ3GEYJ105 M. RESISTOR CH 1/16W 1M 1		R842	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	
R526	ERJ3GEYJ154 M. RESISTOR CH 1/16W 150K 1		R843	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	
R527	ERJ3GEYG152 M. RESISTOR CH 1/16W 1.5K 1		R844, 45	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	2
R528	ERJ3GEYG332 M. RESISTOR CH 1/16W 3. 3K 1		R846	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	
R529	ERJ3GEYJ562 M. RESISTOR CH 1/16W 5.6K 1		R847	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1
R530	ERJ3GEYJ473 M. RESISTOR CH 1/16W 47K 1		R848	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1
R531	ERJ3GEYG472 M. RESISTOR CH 1/16W 4.7K 1		R849	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1
R532-34	ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 3		R850	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1
R535, 36	ERJ3GEYG152 M. RESISTOR CH 1/16W 1.5K 2		R851	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1
R537, 38	ERJ3GEYJ333 M. RESISTOR CH 1/16W 33K 2		R852	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1
R539	ERJ3GEYG152 M. RESISTOR CH 1/16W 1.5K 1		R853	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1
R540, 41	ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 2		R854	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1
R540, 41	ERJ3GEYJ101 M. RESISTOR CH 1/16W 100 1		R855, 56	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2
R542	ERJ3GEYG152 M. RESISTOR CH 1/16W 1.5K 1		R857	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1
	ERJ3GEYJ222 M. RESISTOR CH 1/16W 2. 2K 2		R858-61	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	4
R544, 45			R862	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1
R546			R863	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1
R547, 48			R864	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1
R549			R865	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1
R550			R866	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1
R551 R554	ERJ3GEYJ102 M. RESISTOR CH 1/16W 1K 1		R866 R870	ERJ3GEYJ272 ERJ3GEYJ103	M. RESISTOR CH 1/16W 2.7K	1
	ERJ3GEYJ391 M. RESISTOR CH 1/16W 390 1	1 1		LERUSUE FULIUS	INCACCIONA ON 1/101 10A I	11

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RECOMMENDATION OF A STATE OF A ST	Ref No	Part No.	Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
BIODEL   SANCH   ARRESTOR   1				14011102 110					
BOOK   BANKEY   BAN				· · · · · · · · · · · · · · · · · · ·				1	
BOOK   COLUMN   MERCANCE ON 1 / MERCANCE								-	
BANDERY   1985						1		<b>├</b>	
EARLING   C.   C.   C.   C.   C.   C.   C.   C					<del></del>			<del>                                     </del>	<del> </del>
BALINEY_CATE   RESISTENCE OF LYINE   2x   2   1   1   1   1   1   1   1   1   1					<del></del>			<del>-</del>	
BOADS   BANDEY   BA								-	
MARCH   MARC									
READER   R	R906, 07	ERJ3GEYG822						1	
BAULEY-1022   RESISTON OF 1/198   SAX   1	R908-10	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K 3		<del></del>			$\sqcup$	
BAJUAN   B	R911	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K   1		R1124	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
BALLEY CLOSE   RESISTION OF LIVING S. M.	R912	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K 1		R1125	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
MILESTATION   MESTATION OF 17/08   XX   1		ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K 1		R1126	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
BISSE   CAUSEY-CALE   RESISTING OF 1/198   24   1					R1127	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
BULBETTONES   RESISTRE OF LYINE   6.4							M. RESISTOR CH 1/16W 4.7K	1	
REAL   REAL   RESISTOR OF 1/196   70   1								1	
BASSEP   SALES   SAL				·	11120,00	EROOGE TO TOT	an recorded on 17 row 110	┝╌	
### ### ### ### ### ### ### ### ### ##					CWAOO	VCC0272	CWITCH	-	
MARCHAN   MARC					3R400	V330372	SRIIGN		
1997   22   BLADBET/JIGS   BLADBET/JIGS ON 1/16   10K   2								L	
READER   READER   READER   RESISTOR ON 1/100   N. 1   1   1   1   1   1   1   1   1   1	R920	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K 1						
READER_FOUNDS	R921, 22	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 2		TG150			1	
RAMERICATION   RAMINISTOR ON 1/160	R923	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K 1		TG250			1	
READER_17/102   READER_17/102   RESISTOR ON 1/16# 10K   1   1000   1   1   1   1   1   1   1					TG503	VJR0646	TEST POINT	$\lfloor 1 \rfloor$	
PROJECT   PROJ					TG704	VJR0646	TEST POINT	1	
PROPERTY   12								1	
BRADD   BRADDENIARY   SERVICE OF   1/190   14   1   1   1   1   1   1   1   1								7	
BRAINGERVINS   BRAINGERVINS   BRESISTOR OI 1/19W   15K   1								۱Ť	
BRAINGEVILLONG   BRAINSTOR ON 17/06   TM   THE					141100	. 2110070		H	<del> </del>
SASSEN_LINE   M. ARSISTOR CH 1/108   100, 01   1   1   1   1   1   1   1   1   1					TUEOC :	EDTROCUL 1000	THERMI STOP 1"	٠,	<del></del>
1932   SAJABET-100   M. RESISTOR CH 1/106   M. C.					111500	ERIDZPHL 1028	THE TOTO IN	<b>⊢</b> '	<del></del>
1993   13   1935   19						N 1000 10	TOT DOLLE	1	
Fig. 2016   Fig. 2017   Fig. 2017   Fig. 2   Fig.					L				
TYPROD   CAUSEFY/OTE   ARESISTOR CH 1/16W 10K 1   TYPROD   TYPRO	R934, 35	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K 2			VJR0646			
FIDOS   PLUBERTAIDS   M. RESISTOR CH 1/16W   10K   1   TP000   VLADOLAG   TEST POINT   1   TP000   TP000   VLADOLAG   TEST POINT   2   TP0000   VLADOLAG   TEST POINT   2   TP00000   VLADOLAG   TEST POINT   2   TP000000   VLADOLAG   TEST POINT   2   TP000000   VLADOLAG   TEST POINT   2   TP00000000000000000000000000000000000	R1000	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K 1		TP700-03	VJR0646	TEST POINT	4	
FIREDRO	R1001	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K 1		TP800, 01	VJR0646	TEST POINT	2	
FIREDONS   SUBSETVICE   ARESISTOR CH 17/69   16   1   TP009-05   VARCHAGE   TEST POINT   3   TP1000-05   VARCHAGE   TEST POINT   2   TP1009-05   VARCHAGE   TP1009-05   VARCHAG	R1002	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 1		TP900	VJR0646	TEST POINT	1	
F1000.0   F1000-F007   RESISTOR CH 1/16W   0   1	R1003	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K 1		TP903-05	VJR0646	TEST POINT	3	
F1006   C  RAJBETYBEZY   M. RESISTOR ON 1/16W   A. TK   2   T2100-05 VARD646   TEST POINT   6					TP1000, 01	VJR0646	TEST POINT	2	
R1008   ERJOREY_1153   M. RESISTOR OH 1/16W   16K   1			<del></del>	·			<u> </u>	6	
RT010   ERJ36EY0152   M. RESISTOR CH 1/16H   1.5K   1				· · · · · · · · · · · · · · · · · · ·	VC500	ECV17W20Y53	TRIMMER	1	
RID13								┤┤	
RID13					VG1000	EUV IZNZUASS	IRIMMER	<del>  '</del>	
RT014   RT30EY1105   R.RESISTOR CH 1/16W								١.,	
No.	R1013							L.!	
No.	R1014	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M 1					1	
R1018   RJ36EYG622   R. RESISTOR CH 1/16W 8, 2K 1   VR007   EVMEGSA00B13   V. RESISTOR	R1015	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K 1	<u></u>	VR302-04	EVMEGSA00B13	V. RESISTOR 1K	3	
NR   NR   NR   NR   NR   NR   NR   NR	R1016	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K 1		VR305, 06	EVMEGSA00B12	V. RESISTOR 100	2	
R1020   ERJSGEY_J102   R. RESISTOR CRI 1/16W   15K   1	R1018	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K 1		VR307	EVMEGSA00B13	V. RESISTOR 1K	1	
R1020	R1019	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K 1		VR400	EVMEGSA00B13	V. RESISTOR 1K	1	
R1021   ERJ36EYJ102   M. RESISTOR CH 1/16W   1K   1   VR503, 04   EVMEGSAO0B13   V. RESISTOR   1K   2   VR505, 06   EVMEGSAO0B23   V. RESISTOR   1K   2   VR505, 06   EVMEGSAO0B23   V. RESISTOR   2K   2   VR505, 06   EVMEGSAO0B23   V. RESISTOR   2K   2   VR505, 06   EVMEGSAO0B23   V. RESISTOR   2K   2   VR505   CM   2   VR505   VR505   V. RESISTOR   2K   2   VR505   VR505   V. RESISTOR   2K   2   VR505   VR505   V. RESISTOR					VR500-02	EVMEGSAGOB53	V. RESISTOR 5K	3	
R1022, 23   ERJ3GEYJ473   M. RESISTOR CH 1/16W   47K   2   VRSO5, 66   EVMEGSA00823   V. RESISTOR   X   X   X   X   X   X   X   X   X			M RESISTOR CH 1/16W 1K 1		VR503. 04	EVMEGSA00B13	V. RESISTOR 1K	2	
R1024   ERJ36EYG132   M. RESISTOR CH 1/16W 3.3K 1   VRS01   EVMEGSA00B33   V. RESISTOR   1K 1   R1025   ERJ36EYG132   M. RESISTOR CH 1/16W 1K 1   VRS00   EVMEGSA00B33   V. RESISTOR   5K 1   VRS01   EVMEGSA00B33   V. RESISTOR   5K 1   VRS02   EVMEGSA00B33   V. RESISTOR   5K 1   VRS03   EVMEGSA00B34   V. RESISTOR   5K 1   VRS03   EVMEGSA00B34   V. RESISTOR   5K 1   VRS03   EVMEGSA00B34   V. RESISTOR   5K 1   VRS03   EVMEGSA00B44   V. RESISTOR   5K 1   VRS04   EVMEGSA00B44   V. RESISTOR   20K 1   VRS04   EVMEGSA00B44   V. RESISTOR   20K 1   VRS04   EVMEGSA00B44   V. RESISTOR   20K 1   VRS04   EVMEGSA00B54   V. RESISTOR   5K 1   VRS05   EVMEGSA00B55   V. RESISTOR   5K 1   VRS05   V. RESISTOR								2	
NEST				· · · · · · · · · · · · · · · · · · ·				-	
NR   NR   NR   NR   NR   NR   NR   NR								-	
R1027   ERJ3GEY0332   M. RESISTOR CH 1/16W 3.3K 1   VR802   EVMEGSA00B53   V. RESISTOR SK 1   R1028   ERJ3GEY1102   M. RESISTOR CH 1/16W 1K 1   VR803   EVMEGSA00B13   V. RESISTOR CH K 1   R1030   ERJ3GEY1102   M. RESISTOR CH 1/16W 1K 1   VR803   EVMEGSA00B14   V. RESISTOR 20K 1   R1036   ERJ3GEY1103   M. RESISTOR CH 1/16W 100 1   VR901   EVMEGSA00B14   V. RESISTOR CH 20K 1   R1037   ERJ3GEY0700   M. RESISTOR CH 1/16W 100 1   VR902   EVMEGSA00B14   V. RESISTOR CH 20K 1   R1050   ERJ3GEY103   M. RESISTOR CH 1/16W 10K 1   VR902   EVMEGSA00B14   V. RESISTOR 5K 1   VR1050   EVMEGSA00B14   V. RESISTOR CH 20K 1   ERJ3GEY103   M. RESISTOR CH 1/16W 10K 1   VR1000   EVMEGSA00B35   V. RESISTOR 5K 1   VR1050   EVMEGSA00B35   V. RESISTOR CH 20K 1   EVMEGSA0B35   V. RESISTOR C								+-;	<del> </del>
R1028   ERJ3GEYJ102   M. RESISTOR CH 1/16W 1K 1   VR900   EVMEGSAO0824   V. RESISTOR CH 2/16W 1K 1   VR900   EVMEGSAO0824   V. RESISTOR CH 2/16W 1D 1   VR901   EVMEGSAO0824   V. RESISTOR CH 2/16W 1D 1   VR902   EVMEGSAO0825   V. RESISTOR CH 2/16W 1D 1   VR902   VR90								┝╌	
R1030   ERJ3GEYJ102   M. RESISTOR CH 1/16W   1K   1								-	
R1036   ERJ3GEYJ101   M. RESISTOR CH 1/16W   100   1								<u></u>	
RT037   ERJ3GEY0R00   M. RESISTOR CH 1/16W   O   1   VR902   EVMEGSA00B53   V. RESISTOR   SK   1   VR1050   EVMEGSA00B24   V. RESISTOR   C   C   C   C   C   C   C   C   C									
RTO50   ERJ3GEYJ471   M. RESISTOR CH 1/16W   470   1	R1036	[						-	
R1051   ERJ3GEYJ103   M. RESISTOR CH 1/16W   10K   1   VR1050   EVMEGSA00853   V. RESISTOR   5K   1   TR1050   EVMEGS	R1037	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0 1					1	
R1051   ERJ3GEYJ103   M. RESISTOR CH 1/16W   10K   1	R1050	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470 1		VR1000	EVMEGSA00B24	V. RESISTOR 20K	<u>L</u> 1	
R1052   ERJ3GEYJ333   M. RESISTOR CH 1/16W   33K   1					VR1050	EVMEGSA00B53	V. RESISTOR 5K	1	
R1052					VR1100	EVMEGSA00B53	V. RESISTOR 5K	1	
R1050   R105								1	
R1055   ERJ3GEYJ105   M. RESISTOR CH 1/16W 1M 1   1								一	
R1056   ERJ3GEYJ101   M. RESISTOR CH 1/16W 100 1   X901   VSX0567A   CRYSTAL OSCILLATOR 1   R1057, 58   ERJ3GEYJ102   M. RESISTOR CH 1/16W 1K 2   X1000   VSX0363   CRYSTAL OSCILLATOR 1   R1060   ERJ3GEYJ101   M. RESISTOR CH 1/16W 100 1   X1050   VSX0788   CRYSTAL OSCILLATOR 1   CRYSTAL OSCILLATO					X900	VSX0270	CRYSTAL OSCILLATOR	1	
R1057.58   ERJ3GEYJ102   M. RESISTOR CH 1/16W 1K 2   X1000   VSX0363   CRYSTAL OSCILLATOR   1									<del> </del>
R1060   CRJ3GEYJ101   M. RESISTOR CH 1/16W   100   1				<u> </u>				<del>                                     </del>	<del></del>
R1061   ERJ3GEYJ102   M. RESISTOR CH 1/16W   1K   1						<del></del>		<del>-</del>	<del> </del>
R1100   ERJ3GEYJ562   M. RESISTOR CH 1/16W 5. 6K 1					X1050	42V018R	UNISTAL USUILLATUK	1	
R1101								<u> </u>	ļ
R1103   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10K 1   VML2143   CARD PULLER   1	R1100	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K   1				MISCELLANEOUS		
R1103   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10K 1   VML2143   CARD PULLER   1	R1101	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 1					_	
R1104   ERJ3GEYJ563   M. RESISTOR CH 1/16W   56K   1     VML2144   CARD PULLER   1     R1105   ERJ3GEYG682   M. RESISTOR CH 1/16W   6. 8K   1		ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 1		l	VML2143	CARD PULLER	_ 1	
R1105 ERJ3GEYG682 M. RESISTOR CH 1/16W 6. 8K 1 R1106 ERJ3GEYG472 M. RESISTOR CH 1/16W 4. 7K 1						VML2144	CARD PULLER	1	
R1106 ERJ3GEYG472 M. RESISTOR CH 1/16W 4.7K 1							<u> </u>	ŀ	
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NTO ENOUGHOUS IN RECEIVE OF 17 FOR 1. VI. 1								_	
	11107	LAUGUL I U 102			<del> </del>			<u> </u>	
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VEP83353B Remarks Part No. Part Name & DescriptionPcs Remarks Ref. No. Part No. Part Name & DescriptionPcs EGUM1H102JCN C. CAPACITOR CH 50V C3442-45 ECUM1E104ZFN C. CAPACITOR CH 25V ■ VEP83353B F5 REG PB G. B. A. 1 (RTL) C3451-58 ECUMIE104ZFN C. CAPACITOR CH 25V FCUMIHIO3KBN C CAPACITOR CH 50V 0.010 C3459 G3101-09 C3460, 61 ECUMIE104ZFN C, CAPACITOR CH 25V ECUMIE104ZFN C. CAPACITOR CH 25V 0, 10 0. 10 EGUM1H103KBN C. CAPACITOR CH 50V C3471-77 ECUM1E104ZFN C. CAPACITOR CH 25V 0.10 ECUMINIO2JCN C. CAPACITOR CH 50V 1000P G3122 ECUMTE104ZFN C. CAPACITOR CH 25V C3478 EGUM1H331JCN C. CAPACITOR CH 50V G3483-86 ECUMIETO4ZFN C. CAPACITOR CH 25V 0, 10 G3123 330P ECUMIE104ZFN C. CAPACITOR CH 25V 0. 10 ECEVICY4700 IF CAPACITOR CH 16V C3491-95 C3124 4711 ECUMIETO4ZFN C. CAPACITOR CH 25V C3501 0.10 C3125, 26 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 10 2 G3127 ECEVICV470Q E. CAPACITOR CH 16V 47U C3502-04 FCUM1H103KBN C CAPACITOR CH 50V 0.01U ECUMIE104ZFN C. CAPACITOR CH 25V EGUM1H103KBN C. CAPACITOR CH 50V 0.01U G3128 0. 1U C3506 ECUM1E104ZFN C. CAPACITOR CH 25V ECEVIEN3R3Q E. CAPACITOR CH 25V 3. 3U C3509 0. 1U C3129 ECEVICV470Q E. CAPACITOR CH 16V G3510 ECEVICV4700 E. CAPACITOR CH 16V 4711 03130 E. CAPACITOR CH6, 3V 4711 ECEVOJV4700 G3511 G3131 ECUMIE104ZFN C. CAPACITOR CH 25V 0 111 EGUM1E104ZFN C. CAPACITOR CH 25V C3132 ECUMIHIO2JCN C. CAPACITOR CH 50V 1000P C3512 0. 1U ECUMIE104ZFN C. CAPACITOR CH 25V C3513 ECUM1H180JCN G. CAPACITOR CH 50V 18P G3134 0. 10 ECUMINISOJON C. CAPACITOR CH 50V 15P G3135 ECUMINISIUCN C. CAPACITOR CH 50V G3514 ECUM1H470JCN C. CAPACITOR CH 50V ECUM1E104ZFN C. CAPACITOR CH 25V 0.10 G3136 EGUMINIOIJON C. CAPACITOR CH 50V C3520 ECEVOJV470Q E. CAPACITOR CH6. 3V 47U 100P G3137 38 ECUM1E104ZFN C. CAPACITOR CH 25V 0. 1U G3521, 22 G3139, 40 FCUMIE104ZFN C. CAPACITOR CH 25V 0 111 ECUM1H102JCN C. CAPACITOR CH 50V ECUMINION C. CAPACITOR CH 50V 100P C3523-25 1000P C3141 ECUMINIOSKEN C. CAPACITOR CH 50V C3601 ECUMIE 104ZFN C. CAPACITOR CH 25V 0.18 G3142 0. 01U C3145 EGEVIOVATOR E. CAPACITOR CH 16V C3602 ECUMINIOSKBN C. CAPACITOR CH 50V 0.010 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U C3605 ECUM1E104ZFN C. CAPACITOR CH 25V 0. 1U C3146, 47 ECEVICV470Q E. CAPACITOR CH 16V G3701, 02 ECUM1E104ZFN G. CAPACITOR CH 25V 0. 1U 47U C3148 ECEVICVIOOQ E. CAPACITOR CH 16V 100 C3149 ECUM1E104ZFN C. CAPACITOR CH 25V 0 111 G3703 C3150 ECEVIENSRSQ E. CAPACITOR CH 25V G3704, 05 ECUMIE104ZFN C. CAPACITOR CH 25V 0.10 3 311 EGUMIH102JCN C. CAPACITOR CH 50V C3706 ECEVICVIOOQ E. CAPACITOR CH 16V 100 C3151 1000P 0. 1U C3152 ECEVICV470Q E. CAPACITOR CH 16V C3707, 08 ECUM1E104ZFN C. CAPACITOR CH 25V 100 EGUM1E104ZFN G. CAPACITOR CH 25V ECEVICATION E. CAPACITOR CH 16V C3153-62 G3710, 11 ECUM1E104ZFN C. CAPACITOR CH 25V ECUM1E104ZFN C. CAPACITOR CH 25V 0. 1U C3171-84 0. 1U 14 EGUMINIO2JCN C. CAPACITOR CH 50V C3712 ECEVOJV3300 E. CAPACITOR CH6. 3V 33U G3185 0. 111 C3713. 14 ECUM1E104ZFN C. CAPACITOR CH 25V ECUMIE104ZFN C. CAPACITOR CH 25V 25 0.10 C3191-15 ECUMINIO2JON C. CAPACITOR CH 50V ECEVOJV3300 E. GAPACITOR CH6. 3V 330 C3216 C3715 ECUM1E104ZFN C. CAPACITOR CH 25V 0, 10 G3221-28 ECUMIE104ZFN C. CAPACITOR CH 25V C3718 EGEVOJV330Q E. CAPACITOR CH6. 3V 33U ECUM1H102JCN C. CAPACITOR CH 50V G3229 1000P ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U ECHMINIOSKEN C CAPACITOR ON 50V C3719, 20 C3241 EGEVOJV330Q E. CAPACITOR CH6. 3V 33U ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U C3721 G3242-49 8 EGUM1H102JCN C. GAPACITOR CH 50V G3722, 23 FCUM1E104ZEN C. CAPACITOR CH 25V 0. 1U G3250 1000P C3261 ECUMINIOSKBN C. GAPACITOR CH 50V 0.01U G3724 ECEVOJV3300 E. CAPACITOR CH6. 3V 3311 C3731-33 ECUMIH331JCN C. CAPACITOR CH 50V 330P ECUMINIODEN C. CAPACITOR CH 50V 3 G3262 ECUMINIOSJON C. CAPACITOR CH 50V 1000P G3263 MA715 DIODE D3101 03264 ECUMINIBOJON C. CAPACITOR CH 50V 18P MA335-R DIODE C3265-68 EGUM1E104ZFN G. CAPACITOR CH 25V 0. 10 D3102 ECUM1H102JCN C. CAPACITOR CH 50V 1000P D3103, 04 MA152K DIODE 2 D3111, 12 MA701A DIODE 2 G3281-89 EGUMIE104ZFN C. CAPACITOR CH 25V EGUMTH102JCN C. CAPACITOR CH 50V 1000P D3501-03 MA715 DIODE 3 C3292, 93 ECUMIE104ZFN C. CAPACITOR CH 25V D3507, 08 MA152K DIODE 0. 1U 18 C3301~18 C3319 VCK0151 C. CAPACITOR FILTER VLF1116 FL3101 G3320 ECUMINIBOJON C. CAPACITOR CH 50V 18P ECUM1H682KBN C. CAPACITOR CH 50V FI 3102 VLF1117 FII TER C3321 6800F C3322 VLF1118 FILTER ECEVOJV3300 | E. CAPACITOR CH6, 3V FL3103 EGUM1E104ZFN C. CAPACITOR CH 25V 0.10 FL3104-06 VLF1016A223 FILTER 3 C3323 ECUMINIBOJON C. CAPACITOR CH 50V 189 03324 UPD65841G025 1C3001 G3325 ECUMIN682KBN C, CAPACITOR CH 50V 6800P IC ECEVOJV330Q E. CAPACITOR CH6. 3V 103003 MN67372A2 C3326 33U MN4707F G3327, 28 ECUM1E104ZFN C. CAPACITOR CH 25V 1G3004 IC G3329 ECEV1CV100Q E. CAPACITOR CH 16V 100 C3005 MN67371 M65401FP 10 E. CAPACITOR CH 50V 1C3006 C3330 FCEV1HV2R20 2. 2U 1G3007 L7A1433 İG G3331 ECEVICATION E. CAPACITOR CH 16V 100 G3332 ECEV1HV2R2Q E. CAPACITOR CH 50V IC3008 MB81V4260S7 IC 2. 2U 103009, 10 L7A1434 16 2 G3333 ECUMIE104ZFN G. CAPAGITOR CH 25V 0. 1U ECEVOJV330Q E. CAPACITOR CH6. 3V 33U 103011 L7A1433 IC G3334 1G3012 MB81V4260S7 ECUMINIBOJON C. CAPACITOR CH 50V C3335 18P MN673711 103013 03336 ECUM1H682KBN C. CAPACITOR CH 50V 6800P 10 G3337 ECUMINIO2JON C. CAPACITOR CH 50V 103014 M65401FP 1 G ECUM1E104ZFN C. CAPACITOR CH 25V IC3015 M52660FP 10 1 C3341-53 0.10 13 MN67372A2 G3354 EGUMIH102JCN C. GAPACITOR CH 50V IC3016 IC 1 ECUMIE104ZFN C. GAPACITOR CH 25V 0.10 IC3017 MN4707F 1 G3361-71 1G3018-21 UPD42280G3 IC C3381-92 FOURTETOATEN IC CAPACITOR CH 25V 0. 1U 12 ECUMINISSOUCH C. CAPACITOR CH 50V 1G3022 UPD65843G026 IC C3401 33P ECUMINISOJON C. GAPACITOR CH 50V 15P 103023 UPD42280G3 IG G3402 1G3024 UPD65868D022 1 G3403-12 ECUMIE104ZFN C. CAPACITOR CH 25V 0.10 10 IC UPD71055GB C3421-32 ECUM1E104ZFN C. CAPACITOR CH 25V 0. 1U 12 103025

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Part Name & DescriptionPcs Ref. No. Part No. Part Name & DescriptionPcs Remarks Ref. No. Part No. Remarks 1G3027, 28 UPD42280G3 1C3O3O UPD71055GB 03001 2SC2295-B TRANSISTOR 2SB709A-R TRANSISTOR I G3031 T160G41-1437 IC Q3501 103035 C625123-5106 LC 1 TRANSISTOR-RESISTOR 103036, 37 CY7C19920ZC | IC QR3501 UN2214 2 1G3101, 02 TCVHG257F M. RESISTOR CH 1/10W 1C3103, 04 T74VHCT244F R3101 02 FRJ6GEY0R00 110 R3103-08 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K MG74HG125AF 6 IG3105 lıc M RESISTOR CH 1/10W FRJ6GEYG101 100 1 IC3107 TC7S66F IC R3109 1C3108, 09 NJM082BM IC 2 R3110~13 FR.IGGEYG103 M. RESISTOR CH 1/10W 10K 4 TC7SO4F ERJ6GEYG101 M. RESISTOR CH 1/10W 100 1G3110 10 R3114 M. RESISTOR CH 1/10W IG3111, 12 74F244SJ 10 ERJ6GEYG103 R3117 ERJ6GEYOROO M. RESISTOR CH 1/10W 0 T74LCX244 IG3113 lic R3118, 19 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 2 IG3114 MC10H124M 10 1 IC3115-17 T74LCX244F IG 3 R3121 ERJ6GEYOROO M. RESISTOR CH 1/10W 0 1G3118-20 T74VHG244F 3 R3123, 24 ERJ6GEYG101 M. RESISTOR CH 1/10W 100 IG R3125-30 ERJ6GEYF472 M. RESISTOR CH 1/10W MC10H125M 4. 7K 6 IG3122 T74LCX244F R3132 ERJ6GEYOROO M. RESISTOR CH 1/10W 10 R3141, 42 ERJ6GEYOROO M. RESISTOR CH. 1/10W 1C3123-26 T74VHC245F 0 ic 4 ERJ6GEYF473 M. RESISTOR CH 1/10W 47K 1G3127 TC7S66F IC R3143 FRJ6GFYF123 M RESISTOR CH 1/10W 1G3128 T74VHCT244F Tic R3145 12K 1G3129 MC10H124M 10 R3146, 47 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 2 1C3130 TC7S66F IC R3148 ERJ6GEYG273 M. RESISTOR CH 1/10W 27K ERJ6GEYG105 M. RESISTOR CH 1/10W 1C3131 T74VHC08I 114 103132 TCVHC257F R3150 ERJ6GEY6102 M. RESISTOR CH 1/10W 1K 10 M. RESISTOR CH 1/10W IG3133 T74VHCT244F R3152, 53 ERJ6GEYG103 10K 2 110 1C3134-36 T74VHC244F 10 3 R3154 FRJ6GFYG223 M. RESISTOR CH 1/10W 22K 2. 7K IC3137 TCVHC164F 10 R3155 FRJ6GEYG272 M RESISTOR CH 1/10W T74VHC74F R3156 ERJ6GEYG331 M. RESISTOR CH-1/10W 330 IG3138 10 M. RESISTOR CH 1/10W IG3139 TGVHG02F 10 R3157 ERJ6GEYG103 R3158 ERJ6GEYG105 M. RESISTOR CH 1/10W 103140 TC7SOOF IG IC3141-44 74ALS541SJ ERJ6GEYJ471 M. RESISTOR CH 1/10W R3159 470 IG 4 IC3145 MC10H125M IC 1 R3160 ERJ6GEYOROO M. RESISTOR CH 1/10W ٥ 103146, 47 T74LGX244F 2 R3161 ERJ6GEYF473 M. RESISTOR CH 1/10W 47K IG ERJ6GEYG103 M. RESISTOR CH 1/10W IG3148 T74VHG74F 1 G R3162, 63 10K 103149, 50 SN74S1051NS R3164 ERJ6GEYG223 M. RESISTOR CH 1/10W 22K IC 2 M. RESISTOR CH 1/10W IC3151, 52 74ALS541SJ R3165 ERJ6GEYG105 1M IIC 2 ERJ6GEYG102 M. RESISTOR CH 1/10W IC3153 74ALS245ASJ IIC 1 R3166 1K 1 1G3154 74AC139SJ 10 1 R3167 ERJ6GEYG101 M. RESISTOR CH 1/10W 100 1G3156 T74VHG244F R3168, 69 ERJ6GEY6470 M. RESISTOR CH 1/10W 47 2 10 1 ERJ6GEYG470 M. RESISTOR CH 1/10W 47 5 IG3157 TC7SO4F R3171~75 IC3158 T74VHC244F IG ERJ6GEYG101 M. RESISTOR CH 1/10W 100 R3177-79 ERJ6GEYG470 M. RESISTOR CH 1/10W 103159-61 47 TCVHC257F 10 3 R3182, 83 ERJ6GEYG470 M. RESISTOR CH 1/10W IG3162 T74VHC74F 10 47 2 103163.64 T74VHCT244F IC 2 R3185-88 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K R3189-92 ERJ6GEYJ471 103165, 66 T74VHC245F 2 M. RESISTOR CH 1/10W 470 10 T74VHG244F ERJ6GEYG101 M. RESISTOR CH 1/10W IC3167. 68 R3193 100 IC3169 TC7SO4F R3195-01 ERJ6GEYG470 M. RESISTOR CH 1/10W 10 R3202 ERJ6GEYG101 M. RESISTOR CH 1/10W R3203-06 ERJ6GEYG470 M. RESISTOR CH 1/10W TC7SO4F 100 103171 10 1C3172 TG7S32F 10 1 47 100 IC3201 NJM78L09UA R3211 FRJ6GFY6101 M. RESISTOR CH 1/10W ic R3212-19 ERJ6GEY6470 1C3202 NJM79L09UA M. RESISTOR CH 1/10W 47 ERJ6GEY6101 M. RESISTOR CH 1/10W NJM78L05UA R3220 IC3203 TIC 100 R3221-28 ERJ6GEYG470 M. RESISTOR CH 1/10W 1G3204 05 XG62AP3202P IIG 2 47 8 103206 XG62AP2302P 10 R3241-48 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 8 1G3207, 08 XG62AP3202P 2 R3249 ERJ6GEYG101 M. RESISTOR CH 1/10W 100 103501 M37709M4L162 IC ERJ6GEYG103 M. RESISTOR CH 1/10W 10K FRJ6GFYG101 M. RESISTOR CH 1/10W S80727ANDQ 1G3502 100 R3259 60 FRJ6GEYOROD M RESISTOR CH 1/10W T74VHC08F 103503 lıc 0 2 IC3504 T74VHCU04F 10 1 R3271 ERJ6GEYG101 M. RESISTOR CH 1/10W 100 1 103505 XC62AP3202P 1 R3272-75 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K IC 103507, 08 TC7S66F ERJ6GEYG101 M. RESISTOR CH 1/10W 100 M37709M4L162 IC R3282, 83 ERJ6GEYG470 M. RESISTOR CH 1/10W 47 1C3601 ERJ6GEYG101 M. RESISTOR CH 1/10W T74VHC08F R3284 103603 110 100 R3285-87 ERJ6GEY6470 M. RESISTOR CH 1/10W 47 3 COL L3101-06 VLQ0319K470 47UH R3289-91 ERJ6GEYG470 M. RESISTOR CH 1/10W 47 ERJ6GEYG103 M. RESISTOR CH 1/10W L3107 VLQ0163J3R9 COIL 3. 9UH R3292 VLQ0319K470 COIL 47UH R3294-02 ERJ6GEYF472 M. RESISTOR CH 1/10W L3108 4. 7K R3303-06 ERJ6GEYG103 VLQ0163J1R5 1. 5UH M. RESISTOR CH 1/10W COIL 10K L3111 L3121-23 VLQ0319K100 lcom 1000 3 R3311 FRJ6GFYG223 M RESISTOR CH 1/10W 22K L3131, 32 VLP0133 COIL R3312-22 ERJ6GEY0R00 M. RESISTOR CH 1/10W 0 11 47UH ERJ6GEYG103 M. RESISTOR CH 1/10W L3501 VLQ0319K470 R3331 10K ERJEGEYG331 M. RESISTOR CH 1/10W 330 VJP3454B096 CONNECTOR (MALE) R3333, 34 ERJ6GEYG332 M. RESISTOR CH 1/10W 3. 3K P3001, 02 VJP3418B060 CONNECTOR (MALE) R3335-38 ERJ6GEYG103 M. RESISTOR CH 1/10W P3003 10K 4

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Descripti	on Po	cs Remarks
	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	-		·	ERJ6GEYOROO		-	2
R3351	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1			ERJ6GEYG102	<del></del>		3
R3352	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1			ERJ6GEYOROO ERJ6GEYOROO		_	2
R3353	ERJ6GEYG105 ERJ6GEYOROO	M. RESISTOR CH 1/10W 1M M. RESISTOR CH 1/10W 0	2			ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7		2
R3363	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1			ERJ6GEYG102	M. RESISTOR CH 1/10W 1		5
R3364	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	<del> </del>		ERJ6GEYG102	M. RESISTOR CH 1/10W 1		2
R3365-69	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	5		R3612, 13	ERJ6GEYOROO	M. RESISTOR CH 1/10W	)	2
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2		R3614	ERJ6GEYG102	M. RESISTOR CH 1/10W 1		1
	ERDS2TJ273	C. RESISTOR 1/4W 27K	3		R3615	ERJ6GEYOROO		<u> </u>	1
R3382	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		R3616, 17		M. RESISTOR CH 1/10W 11 M. RESISTOR CH 1/10W 471	_	2
R3383 R3384-89	ERJ6GEYG101 ERJ6GEYF472	M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 4. 7K	6		R3618	ERJ6GEYF473 ERJ6GEYOROO			2
R3390	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	l		ERJ6GEYG102	M. RESISTOR CH 1/10W 1		2
R3393	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1		R3625	ERJ6GEYG104	M. RESISTOR CH 1/10W 100		1
R3394	ERJ6GEYG391	M. RESISTOR CH 1/10W 390	1		R3627	ERJ6GEYG104	M. RESISTOR CH 1/10W 100	(	1
R3397	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1		R3628	ERJ6GEYOROO	M. RESISTOR CH 1/10W	-	1
R3398	ERJ6GEYG391	M. RESISTOR CH 1/10W 390	1		R3629	ERJ6GEYG104	M. RESISTOR CH 1/10W 100	_	1
R3399	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1			ERJ6GEYOROO	· · · · · · · · · · · · · · · · · · ·		2
R3400 R3401	ERJ6GEYG222 ERJ6GEYF393	M. RESISTOR CH 1/10W 2. 2K M. RESISTOR CH 1/10W 39K	1		R3639-49 R3651	ERJ6GEYOROO ERJ6GEYOROO	M. RESISTOR CH 1/10W		1
R3404	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1			ERJ6GEYG222	M. RESISTOR CH 1/10W 2. 2		2
R3405	ERJ6GEYG391	M. RESISTOR CH 1/10W 390	1			ERJ6GEYG101	M. RESISTOR CH 1/10W 10	_	2
R3411	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1			ERJ6GEYG103	M. RESISTOR CH 1/10W 10I	_	2
R3422	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	_1		R3673-75	ERJ6GEYOROO	M. RESISTOR CH 1/10W		3
	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	4		R3701	ERJ6GEYOROO		-	1
R3428	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		R3703	ERJ6GEYOROO	M. RESISTOR CH 1/10W		1
	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	3		R3708	ERJ6GEYOROO		1	1
R3434-36 R3437	ERJ6GEYG103 ERJ6GEYG101	M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 100	3		R3709 R3710	ERJ6GEYG102 ERJ6GEYG103	M. RESISTOR CH 1/10W 1H M. RESISTOR CH 1/10W 10H		1
R3454	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	'		R3722	ERJ6GEYG470	M. RESISTOR CH 1/10W 4:		1
R3456	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1			ERJ6GEYG470	M. RESISTOR CH 1/10W 4		8
R3461		M. RESISTOR CH 1/10W 0	1			ERJ6GEYG103	M. RESISTOR CH 1/10W 10H		3
R3463, 64	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2			ERJ6GEYG103	M. RESISTOR CH 1/10W 10F	_	4
	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1			ERJ6GEYG470	M. RESISTOR CH 1/10W 4	_	5
R3472	ERJ6GEYG271	M. RESISTOR CH 1/10W 270	1		R3752	ERJ6GEYG102	M. RESISTOR CH 1/10W 11		1
	ERJ6GEYG101 ERJ6GEY0R00	M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 0	1		R3753 R3754	ERJ6GEYG103 ERJ6GEYG102	M. RESISTOR CH 1/10W 10P M. RESISTOR CH 1/10W 1P		1
	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	6		R3761, 62	ERJ6GEYG101	M. RESISTOR CH 1/10W 100		2
	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2			ERJ6GEYG103	M. RESISTOR CH 1/10W 10H		4
	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1		R3767-74	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7H		8
R3499	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1		R3775	ERJ6GEYG101	M. RESISTOR CH 1/10W 100		1
	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		R3776	ERJ6GEYOROO	M. RESISTOR CH 1/10W		1
	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	2		R3777	ERJ6GEYG103	M. RESISTOR CH 1/10W 10H		1
	ERJ6GEYG101	M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 4.7K	2				M. RESISTOR CH 1/10W 10M M. RESISTOR CH 1/10W 100		8 6
	VRE0034E472	M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 4.7K	3			ERJ6GEYG101 ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7H	-	
	<u> </u>	M. RESISTOR CH 1/10W 47K	1						3
		M. RESISTOR CH 1/10W 1K	3			ERJ6GEY0R00	M. RESISTOR CH 1/10W		2
R3515	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1.		R3818	ERJ6GEYOROO	M. RESISTOR CH 1/10W		1
		M. RESISTOR CH 1/10W 1K	3		R3820	ERJ6GEYOROO	M. RESISTOR CH 1/10W C		1
R3520		M. RESISTOR CH 1/10W 10K	1			ERJ6GEYG101	M. RESISTOR CH 1/10W 10C		2
		M. RESISTOR CH 1/10W 0	2	·		ERJ6GEYOROO	M. RESISTOR CH 1/10W C	_	2
	ERJ6GEYG102 ERJ6GEYF473	M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 47K			R3851, 52	ERJ6GEYG103 ERJ6GEYG331	M. RESISTOR CH 1/10W 10M M. RESISTOR CH 1/10W 330	_	1
		M. RESISTOR CH 1/10W 1M	1				M. RESISTOR CH 1/10W 100	-	6
	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	2				M. RESISTOR CH 1/10W 100		<u> </u>
		M. RESISTOR CH 1/10W 0	1		R3885		M. RESISTOR CH 1/10W 47		1
R3530	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1				M. RESISTOR CH 1/10W 100		2
	<del></del>	M. RESISTOR CH 1/10W 10K	2		<del></del>		M. RESISTOR CH 1/10W 47		
		M. RESISTOR CH 1/10W 4.7K	_1				M. RESISTOR CH 1/10W 100		2
		M. RESISTOR CH 1/10W 10K	1				M. RESISTOR CH 1/10W 47		
		M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 1M	1		R3908	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	+	1
	<del></del>	M. RESISTOR CH 1/10W 270	1.		SW3101	VSS0367-04B	SWITCH	+	1
		M. RESISTOR CH 1/10W 0	2		SW3102		SWITCH		1
		M. RESISTOR CH 1/10W 1K	2					Ϊ	
		M. RESISTOR CH 1/10W 100K	_1		TG3101	VJR0646	TEST POINT		`
		M. RESISTOR CH 1/10W 0	1			EYF6CU	TEST POINT		·
		M. RESISTOR CH 1/10W 100K	1		TG3501	EYF6CU	TEST POINT	<u> L</u>	1
		M. RESISTOR CH 1/10W 0	1		TP3101-06	EAECON	TEST POINT	+-	<u> </u>
		M. RESISTOR CH 1/10W 100K M. RESISTOR CH 1/10W 10K			TP3101-06		TEST POINT	1	<del></del>
		M. RESISTOR CH 1/10W 0	1			VJR0646	TEST POINT	+	
		M: RESISTOR CH 1/10W 1K	1			EYF6CU	TEST POINT		
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Ref. No.		Part Name & Description	Pcs	Remarks	Ref. No.		Part Name & Descr			Remarks
TP3501, 02		TEST POINT	2				C. CAPACITOR CH 25V	0.10	9	
TP3601, 02	EYF6CU	TEST POINT	2				C. CAPACITOR CH 25V	0. 1U 39P	1	
	COLL THEOVERT	TRUMER	<u> </u>				C. CAPACITOR CH 50V	0. 1U	1	
VC3001	ECV1ZW50X53T	IKIMMEK	-'				C. CAPACITOR CH 50V	47P	1	
VP2101_03	EVMEGSA00B24	V. RESISTOR 20K	3				G. CAPACITOR CH 25V	0. IU	2	
VR3101-03	EVMEGGAOOD24	V. NEO1010N 20N	H				C. CAPACITOR CH 25V	0.10	1	
X3102	VSX0789	CRYSTAL OSCILLATOR	1				C. CAPACITOR CH 25V	O. 1U	2	
X3103		CRYSTAL OSCILLATOR	1		C392	ECUM1H330JCN	G. GAPAGITOR CH 50V	33P	1	
X3501	VSX0637	CRYSTAL OSCILLATOR	1				G. CAPACITOR CH 50V	270P	1	
							C. CAPACITOR CH 50V	22P	1	
		MISCELLANEOUS	<u> </u>				C. CAPACITOR CH SOV	68P	1	
		AARD DILLER	<u> </u>				G. CAPACITOR CH 50V G. CAPACITOR CH 25V	7P .	1	
	VML2143 VML2144	GARD PULLER GARD PULLER	1				C. CAPACITOR CH 50V	120P	1	
	VMLZ 144	GARD FOLLER	<u> </u>				G. GAPAGITOR CH 50V	10P	<u> </u>	
			-				C. CAPACITOR CH 25V	0. 1U	1	
	VEP83355B	F6 V IN C. B. A.	1	(RTL)			G. GAPAGITOR CH 50V	10P	1	
	12.00				C402	ECUM1H330JCN	C. CAPACITOR CH 50V	33P	- 1	
					C403-05	EGUM1E104ZFN	C. CAPACITOR CH 25V	0. 1U	3	
C51-54	ECUM1E104ZFN	C. CAPACITOR CH 25V 0. 1U	4				G. CAPACITOR CH 25V	0. 1U	1	
C55		E. CAPACITOR CH 16V 47U	1				C. CAPACITOR CH 25V	0. 1U	4	
C56		E. CAPACITOR CH6. 3V 33U	1				C. CAPACITOR CH 50V	100P	1	
C57		E. CAPACITOR CH 16V 47U	1				C. CAPACITOR CH 25V	0. 1U	2	
C58-64		C. CAPACITOR CH 25V 0. 1U	7				E. CAPACITOR CH 50V	4. 7U	1	
C65		E. CAPACITOR CH 16V 47U	1				E. CAPACITOR CH6. 3V	330	3	
G66		E. CAPACITOR CH6. 3V 33U	1	-			C. CAPACITOR CH 25V C. CAPACITOR CH 50V	0. 1U 120P	1	
067		E. CAPACITOR CH 16V 47U C. CAPACITOR CH 25V 0: 1U	3				C. CAPACITOR CH SOV	270P		
G68-70 G101-11		C. CAPACITOR CH 25V 0. 1U	11				C. CAPACITOR CH 25V	0. 1U		
C151-59		C. CAPACITOR CH 25V 0. 1U	9				C. CAPACITOR CH 50V	0. 01U	2	
C160		C. CAPACITOR CH 50V 0.01U	1				C. CAPACITOR CH 50V	1000P	1	
C201-08		C. CAPACITOR CH 25V 0. 1U	8		C430	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 1U	1	
C210		G. CAPACITOR CH 50V 220P	1		G431	ECUM1H271JCN	C. CAPACITOR CH 50V	270P	1	
G211		G. CAPACITOR CH 50V 150P	1				E. CAPACITOR CH 50V	0. 47U	1	
G212-15	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	4				G. GAPACITOR GH 25V	0. 1U	1	
C251-54		E. CAPACITOR CH 16V 10U	4				C. CAPACITOR CH 50V	150P	1	
C255-60		G. CAPACITOR CH 25V 0.1U	6				C. CAPACITOR CH 25V	0. 10	- 5	
C261		C. CAPACITOR CH 25V 0. 1U	1				G. CAPACITOR CH 50V	56P	1	
		C. CAPACITOR CH 25V 0. 1U	2				G. CAPACITOR CH 50V	7P 150P	1	
C264		E. CAPACITOR CH 25V 4. 7U	1				C. CAPACITOR CH 50V E. CAPACITOR CH6. 3V	33U	1	
	<del></del>	C. CAPACITOR CH 25V 0.1U E. CAPACITOR CH6.3V 33U	2	·			E. CAPACITOR CHO. SV	100	4	
C269, 70 C271-76		E. CAPACITOR CH6. 3V 33U C. CAPACITOR CH 25V 0. 1U	6				C. CAPACITOR CH 25V	0. 1U	5	
G277		C. CAPACITOR CH 50V 39P	1				C. CAPACITOR CH 25V	0. 1U	4	
G278		C. CAPACITOR CH 50V 180P	1				C. CAPACITOR CH 50V	27P	1	
		G. GAPAGITOR CH 25V O. 1U	2				G. CAPACITOR CH 25V	0. 10	5	1
		C. CAPACITOR CH 50V 8P	1		G471, 72	ECUM1H103KBN	C. CAPACITOR CH 50V	0. 01U	2	
C283	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1				C. CAPACITOR CH 50V	22P	1	
C284		G. CAPACITOR CH 25V 0.1U	1				G. CAPACITOR CH 25V	0. 1U	1	
C285		E. CAPACITOR CH6, 3V 33U	1				C. CAPACITOR CH 50V	18P	1	
C286		C. CAPACITOR CH 50V 0.01U	1				E. CAPACITOR CH 16V	470	1	
C287		C. CAPACITOR CH 50V 82P	1				C. CAPACITOR CH 50V	18P	1	
C288, 89		G. CAPACITOR CH 50V 0. 01U	2				E. CAPACITOR CH 16V C. CAPACITOR CH 50V	47U 4P	2	<u> </u>
C290		E. CAPACITOR CH 50V 1U	1				G. CAPACITOR CH 50V	4P 0. 01U	2	
0301, 02		C. CAPACITOR CH 25V 0. 1U	4	<del>  </del>			G. CAPACITOR CH SOV	0. 010 68P	2	
C303-06		E. GAPAGITOR CH6. 3V 33U E. GAPAGITOR CH 16V 47U	1				G. CAPACITOR CH 50V	8P	4	
C307 C308-11		G. CAPACITOR CH 25V 0. 1U	4				C. CAPACITOR CH 50V	0. 01U	2	
G312		C. CAPACITOR CH 50V 47P	1				C. CAPACITOR CH 50V	47P	4	
G313		C. CAPACITOR CH 25V 0.1U	1				G. CAPACITOR CH 50V	0. 01U	4	
G315		G. CAPACITOR CH 25V 0. 1U	1				E. GAPACITOR CH6. 3V	33U	2	
G317-21		C. CAPACITOR CH 25V 0.1U	5		C503-06	ECUM1H103ZFN	C. CAPACITOR CH 50V	0. 01U	4	
G322		G. GAPACITOR CH 50V 18P	1				E. CAPACITOR CH 16V	47U	1	
G324-26		G. GAPAGITOR CH 25V 0.1U	3				C. CAPACITOR CH 25V	O. 1U	5	
C327		E. GAPACITOR CH6, 3V 33U	1				G. CAPACITOR CH 50V	27P	1	
		G. CAPAGITOR GH 25V 0.1U	2				C. CAPACITOR CH 50V	100P	1	
G330		E. CAPACITOR CH6. 3V 33U	1				C. CAPACITOR CH 25V	0. 10	2	
G331-33		C. CAPACITOR CH 25V 0. 1U	3				E. CAPACITOR CHE. 3V	33U	2	
G334		C. CAPACITOR CH 50V 270P	1	-			E. CAPACITOR CH 50V	10	1 2	· · · · · · · · · · · · · · · · · · ·
C351-54	<del> </del>	C. CAPACITOR CH 25V 0. 1U	4				G. CAPACITOR CH 50V	0. 01U 82P	1	
G355-57		E. CAPACITOR CH6. 3V 33U	4				C. CAPACITOR CH 50V	0. 01U	4	
C358-61		G. CAPACITOR CH 25V 0. 1U G. CAPACITOR CH 25V 0. 1U	2				C. CAPACITOR CH 25V	0. 010	2	
C262 64		O. ONFROSTOR OF ZOY V. IU	; 4							
0363, 64 0365, 66			,		C551.52 I	ECEVOJV3300	IE, CAPACITOR CH6. 3V	33U	2	
C363, 64 C365, 66		E. CAPACITOR CH6. 3V 33U	2		C551, 52	ECEAONA3300	E. CAPACITOR CH6. 3V	330	2	

	GOOD								L	
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.		Part Name & Desc		Pcs	Remarks
C553	ECUM1H470JCN	C. CAPACITOR CH 50V 47P					E. CAPACITOR CH 16V	100	1	
G554	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1		C753-55		G. CAPACITOR CH 25V	0. 10	3	
G555, 56	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2				E. CAPACITOR CH6. 3V	33U	1	
G557	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1		C757-59	ECUM1E104ZFN	C. GAPACITOR CH 25V	0. 10	3	
	I	C. CAPACITOR CH 25V 0.1U	2		C760, 61	ECEVOJV330Q	E. GAPACITOR CH6. 3V	33U	2	
		C. CAPACITOR CH 50V 100P	ョ		C762	ECUM1H080DGN	C. GAPAGITOR CH 50V	8P	1	
C561		C, CAPACITOR CH 50V 1000P	1		C763	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 1U	1	
C562		C. CAPACITOR CH 50V 330P	-		C764		C. CAPACITOR CH 50V	47P	1	
			1		C765		C. CAPACITOR CH 25V	0. 1U	1	
							E. CAPACITOR CH6. 3V	330	1 2	
		C. CAPACITOR CH 50V 270P						0. 1U		
		C. CAPACITOR CH 50V 470P	_1		C768		C. CAPACITOR CH 25V		├-¦	
		G. CAPACITOR CH 25V 0.1U	1		C769		E. CAPACITOR CH 16V	470	'	
C567	ECUM1H820JCN	C. CAPACITOR CH 50V 82P	1		G770		G. GAPACITOR CH 25V	0. 1U	1	
C568	ECUMTH102JCN	G. GAPACITOR CH 50V 1000P	1		C771, 72	ECEAONA3300	E. CAPACITOR CH6. 3V	330	2	
		G. CAPACITOR CH 25V 0. 1U	2		G775	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 10	1	
		C, CAPACITOR CH 50V 0.01U	1		C776 "	ECUM1E104KBN	C. CAPACITOR CH 25V	0. 1U	1	
		G. CAPACITOR CH 25V 0.1U	-		C778	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 1U	1	
		G. CAPACITOR CH 50V 47P			C779		C. CAPACITOR CH 25V	0. 1U	1	
			-;		C780		C. GAPAGITOR CH 25V	0. 1U	1	
		C. CAPACITOR CH 25V 0.1U	_!					330P	-	
		G. CAPACITOR CH 50V 0.01U	_1		C781		C. CAPACITOR CH 50V		1	
		E. CAPACITOR CH 50V 1U	2		C782		C. CAPACITOR CH 50V	479	1	
G601, 02	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2		C783, 84		C. CAPACITOR CH 25V	0. 10	2	
C603-05	ECUM1E104ZFN	C. CAPACITOR GH 25V 0.1U	3		C785		E. CAPACITOR CH6. 3V	33U	1	
C651	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	1		C786-88	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 1Ü	3	
		G. CAPACITOR CH 25V 0. 1U	3		C789	ECEVOJV330Q	E. CAPACITOR CH6. 3V	330	1	
		E. CAPACITOR CH63V 33U	1				C. CAPACITOR CH 25V	0. 1U	3	
		G. CAPACITOR CH 25V 0. 1U	3				C. CAPACITOR CH 25V	O. 1U	11	1
		E. CAPACITOR CH6. 3V 33U	2				C. CAPACITOR CH 25V	0. 1U	4	
			_		C856		C. CAPACITOR CH 50V	33P	1	
	1	C. CAPACITOR CH 25V 0. 1U	2				C. CAPACITOR CH 50V	15P	-	
	1	E. CAPACITOR CH6. 3V 33U	2		C857				10	
C665		C. CAPACITOR CH 25V 0.1U	1		C858-67	EGUMTE TO4ZFN	C. GAPACITOR CH 25V	0. 10	10	
C666	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1						<u> </u>	
C667	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	1	D251, 52	MA152K	DIODE		2	
C668, 69	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2		D253	MA152WK	DIODE		1	
C671	ECUM1HO1OCCN	C. CAPACITOR CH 50V 1P	1		D301, 02	MA152K	DIODE		2	** .
		C. CAPACITOR CH 25V 0.1U	1		D451	MA152K	DIODE		1	
		G. CAPACITOR CH 25V 0.1U	1		D501		DIODE		1	
C673					D551		DIODE		H	
C675		C. CAPACITOR CH 25V 0.1U							-	
C676		G. CAPACITOR CH 25V 0. 1U	1		D552		DIODE		ļ	
C677		G, GAPACITOR CH 25V 0.1U	_1		D553		DIODE		1	
C678	ECUM1H331JCN	C. CAPACITOR CH 50V 330P	1			MA152K	DIODE		2	<u> </u>
G679	ECUM1H47OJCN	G. GAPACITOR CH 50V 47P	1		D701, 02	MA152K	DIODE		2	
C680, 81	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2		D751, 52	MA152K	DIODE		2	
C682	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1						ľ	
C683-85		G. CAPACITOR CH 25V 0.1U	3		FL51, 52	VLF1016A223	FILTER		2	
C686		E. CAPACITOR CH6. 3V 33U	1		FL251	VLF1294	FILTER		1	
C687-89		C, CAPACITOR CH 25V O. 1U	3				FILTER		1	
C701		E. CAPACITOR CH6. 3V 33U	1				FILTER		1	
		E. CAPACITOR CH 16V 10U	1			VLF1016A223				
							FILTER		1	
		C. CAPACITOR CH 25V 0.1U	3						-	
C706		E. CAPACITOR CH6. 3V 33U	1		L		FILTER		-	
		G. GAPAGITOR CH 25V 0.1U	3			VLF1295	FILTER		1	
C710, 11		E. CAPACITOR CH6, 3V 33U	2				FILTER		1	<u> </u>
C712	ECUM1H080DGN	C. GAPACITOR CH 50V 8P	1		FL751	VLF1295	FILTER			
C713	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1		FL752	VLF1016A223	FILTER		$\perp$ 1	
G714		G. GAPACITOR CH 50V 47P	1		FL801	VLF1016A223	FILTER		1	
C715		C. CAPACITOR CH 25V 0.1U	1				FILTER	_	2	
		E. CAPACITOR CH6. 3V 33U	- 2						t	
			1		IC51	AN78N09	IC		1	
G718		C. CAPACITOR CH 25V 0.1U							H	-
C719		E. CAPACITOR CH 16V 47U	1			AN78N05	IC		-	
C720		C. CAPACITOR CH 25V O. 1U	1			AN79N09	IC		-	
C721, 22		E. CAPACITOR CH6. 3V 33U	2		1G54	AN79N05	10		1	
C725	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1		10101-03	MC10H125M	IC		3	
C726		G. CAPACITOR CH 25V 0.1U	1		IG107	MC10H125M	IG		$\perp$ 1	
C728		C. CAPACITOR CH 25V O. 1U	1		10109	74F821SC	IG		_1	
G729		C. CAPACITOR CH 25V 0.1U	1		IC110	74F244SJ	IG		1	
G730		C. CAPACITOR CH 25V 0.1U	_			T74HCT541AF	10		1	
		G. CAPACITOR CH 23V 0.10	1			SN74S1051NS	10		1 2	
C731						74ALS541SJ	10		3	
G732		C. CAPACITOR CH 50V 47P	1						1	
C733, 34		C. CAPACITOR CH 25V 0.1U	2		1C156	74ALS245ASJ	10			
G735		E. CAPACITOR CH6. 3V 33U	1		10161	74AC139SJ	IG		1	
C736-38	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	3			UPD71055GB	10		2	
G739	ECEVOJV3300	E. CAPACITOR CH6: 3V 33U	1		I C201	VS12402	16		1	
		C. CAPACITOR CH 25V 0.1U	3		I G202	VS12382	IC		1	
G740-42					1G203	T74HCT541AF	IG		1	
		E. CAPACITOR CH6. 3V 33U	1							
G740-42 G751		E. GAPACITOR CH6. 3V 33U							1	
		E. CAPACITOR CH6. 3V 33U								

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Ref. No.	Part No.	Part Name & DescriptionP	cs	Remarks Ref. N	o.	Part No.	Part Name & Description	Pos	Remarks
1G2O4		16	1	10802			IC	1	
	74F574SJ	IG	1	10803		UPD42280G3	IG	1	
IC210	T74HCT374AF	IC	1	I C804		MC74HC153F	IG	1	
I C251	DAC10GS	IG	1	IC851		MC74HC4053F	IC	1	
1G252	NJMO82BM	IC	1	IC853		74F244SJ	IC .	1	
1G254	EL2082GS	IC	1	1G854			10	1	
1G255	NJM78L05UA	IC	1	1C855,	56	CY7C19920ZC	IC	2	
10256	NJM79L05UA	IC	1	I C857.	58	74F244SJ	IC	2	
10257	TC4W53F	IG	1						
1G258	AN91A12S	IC	1	L1, L2	_		COIL	2	
1G259	MC74HC00AF	10	1	L51, 52			COIL	2	
I G301	NJM79L05UA	IC	1	L251-5	_		COIL 100UH	4	
10302	NJM78LO5UA	IG	1	L255			GOIL 470UH	1	
10303	NJM084M	IC	1	L256			COIL 100UH	1	
1C3O4	AD818AR	IC	1	L301, 0			COIL 100UH	2	
	CXD1175AM	IG	1	L351, 5			COIL 100UH	2	
10309	NJM78LO5UA	16	1	L354			COIL 27UH	]	
	NJM78L05UA	IC	2	L355			COIL . 6. 8UH	]	
	NJM79LO5UA	IC	1	L356			CO1L 5. 6UH	1	
		1G	1	L401			COIL 100UH	<u> </u>	
		10	_1	L451-5			COIL 100UH	5	
	MC74HC4053F	IG	1	L456			COIL 47UH	<u> </u>	
	AD8047AR	IG .	2	L457, 5			COIL 56UH	2	
	MC74HC4053F	IC	1	L501	_		COIL 390UH	Ļ	1
1G401	SN74LS221NS	IG .	1	L551	_		COIL 3. 3UH		
	MM74HC221AM	1C	2	L601, 0	_		GOIL 100UH GOIL 820UH	2	
1C404	MC74HC04AF	1C ·	1	L651			GOIL 8200H	-	
	NJM78L05UA	10	1	L652			GOIL 1000H	1	
	NJM79L05UA	10	1	L701 L702			COIL 8200H	1	
	NJM082BM	IG .	1	L702			COIL 820UH	_ <u>'</u>	
	MC74HC4053F	IC .	1	L751			COIL 100UH	1	
		IC .	1			AEG0219V101	OUTE TOOLIT	<del>-</del>	
10419	MC74HC4053F	IC .	1	P1, P2	-	VJP3454B096	CONNECTOR (MALE)	-2	
	NJM082BM	IC .	1	F1,F2		V0F3434B090	CONNECTOR (MACE)	<u>'</u>	
	1	10	1	Q251	-+	2SB709A-R	TRANSISTOR	1	
	NJM319M NJM1496M	IC IC	2	Q252, 5	_		TRANSISTOR	2	
		10	2	Q301			TRANSISTOR	1	
10459 10459	NJM78L05UA	IG	1	Q302	_	2SD601A-R	TRANSISTOR	H	
10460	NJM79LO5UA	10	긤	Q303	$\overline{}$		TRANSISTOR	1	
	NJM78L05UA	ic	1	Q351		2SD601A-R	TRANSISTOR	1	
	NJM79L05UA	10	1	Q352		2SB709A-R	TRANSISTOR	1	
	AN91A12S	IG	1	Q401, 0		2SD601A-R	TRANSISTOR	2	
IC504	MC14538BF	10	1	Q451-5		2SD601A-R	TRANSISTOR	4	
	MN53015VZW	IC	1	Q455-5	3	2SB709A-R	TRANSISTOR	4	
10551	MC74HCOOAF	IC	3	Q459-6	7	2SD601A-R	TRANSISTOR	9	
1C552	TC4S584F	10	1	Q551		2SC3757-R	TRANSISTOR	1	
		10	1	Q552, 5	3	2SA1226	TRANSISTOR	2	
	}	10	1	Q554		2SC3757-R	TRANSISTOR	1	
		IG	1	Q601-0	3	2SB709A-R	TRANSISTOR	3	
10561	TG4W53F	IC	1	Q604		XN1213	TRANSISTOR-TRANSISTOR	1	
		IG .	1	Q605			TRANSISTOR	1	
	MC74HC244AF	IC	1	Q606-0		2SD601A-R	TRANSISTOR	3	
	NJM78L05UA	IC	1	Q651		2SD601A-R	TRANSISTOR	1	
	NJM79L05UA	10	1	Q652-5			TRANSISTOR	3	
	MG74HG4053F	IG	1	Q655	-		TRANSISTOR	1	
	NJM084M	IG	1	Q656	$\overline{}$		TRANSISTOR	1	
10656	AD848JR	IG	1	Q701		2SD601A-R	TRANSISTOR	1	
	CXD1175AM	IC	1	Q702		2SB709A-R	TRANSISTOR	1	
		1G	1	Q703		2SD601A-R	TRANSISTOR	_1	
	NJM78LO5UA	IC	1	Q704			TRANSISTOR	1	
		10	1	Q705		2SD601A-R	TRANSISTOR	<u> </u>	
	MC74HC4053F	IC .	. 1	Q706			TRANSISTOR	1	
	NJM084M	IC	1	0751	-	<del> </del>	TRANSISTOR	1	
	AD848JR	IG	1	0752		2SB709A-R	TRANSISTOR	1	
	CXD1175AM	IC	1	Q753		2SD601A-R	TRANSISTOR	1	
	NJM78LO5UA	IC	1	Q754	$\rightarrow$		TRANSISTOR	1	
		IC	1	0755		2SD601A-R	TRANSISTOR	1	
		IG .	1	0756		2SK374-R	TRANSISTOR	1	
	MC74HC4053F	IG	1						
10753	NJM084M	1G	1	. QR151		MRN1403	TRANSISTOR	1	
		1G	1	QR501		MRN1403	TRANSISTOR	1	
1G755	AD848JR		٠,						
10755 10756	AD848JR CXD1175AM	16	1					L	
10755 10756 10760	1			R1-55			M. RESISTOR CH 1/10W 0	55	
10755 10756 10760 10761	CXD1175AM NJM78L05UA	1G	1	R1-55 R101-1	_		M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 100	55 12	

	3000							
Ref. No.	Part No.	Part Name & Description	cs Remarks	Ref. No.	Part No.	Part Name & Description	Pes	Remarks
			1 Remarks	R395	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1	Remerks
R113	<del></del>	M. RESISTOR CH 1/10W 0						
R115-17		M. RESISTOR CH 1/10W 100	3	R401	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R151-53	ERJ6GEY0101	M. RESISTOR CH 1/10W 100	3	R402	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R154-58	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	5	R403	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R159, 60	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	R404	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R202, 03	· · · · · · · · · · · · · · · · · · ·	M. RESISTOR CH 1/10W 0	2	R405	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7K	1	
			1	R406	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1	
R212					<del></del>			
R213		M. RESISTOR CH 1/10W 180	1	R407	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	<del>,,,,</del>
R214	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	R408	ERJ6GEYF123	M. RESISTOR CH 1/10W 12K	1	
R216	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	R409	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R217	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	R410-12	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	3	
R218		M. RESISTOR CH 1/10W 0	1	R413	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	1	
							1	·
R251		M. RESISTOR CH 1/10W 18K	1	R414	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	<del>- ' -</del>	
R252	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	R415	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R253	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	R416	ERJ6GEYJ274	M. RESISTOR CH 1/10W 270K	1	
R254	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	R417	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R255		M. RESISTOR CH 1/10W 100	1	R418	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1	
	· · · · · · · · · · · · · · · · · · ·		1	R419	ERJ6GEYG394	M. RESISTOR CH 1/10W 390K	<del>                                     </del>	
R256						<del></del>	-:-	
R257		M. RESISTOR CH 1/10W 1K	1	R420, 21	ERJ6GEY6103	M. RESISTOR CH 1/10W 10K	2	
R258, 59	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K	2	R422	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R260	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	R423, 24	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R261		M. RESISTOR CH 1/10W 330	1	R426, 27	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R262, 63		M. RESISTOR CH 1/10W 1K	2	R428	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
			1		·			
R264		M. RESISTOR CH 1/10W 560	1	R429	ERJ6GEYG563	M. RESISTOR CH 1/10W 56K	1	
R265		M. RESISTOR CH 1/10W 1K	1	R430	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	
R266, 67	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	2	R431	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	1	
R268	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	R432	ERJ6GEY6102	M. RESISTOR CH 1/10W 1K	1	
R269		M. RESISTOR CH 1/10W 220K	1	R433, 34	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
						M. RESISTOR CH 1/10W 0	2	
R270		M. RESISTOR CH 1/10W 680K		R435, 36	ERJ6GEYOROO			
R271-73		M. RESISTOR CH 1/10W 10K	3	R439, 40	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2	
R274	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	R441, 42	ERJ6GEY6222	M. RESISTOR CH 1/10W 2.2K	2	
R275	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	1	R446	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
R301		M. RESISTOR CH 1/10W 390K	1	R448, 49	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2	
R302		M. RESISTOR CH 1/10W 150K	1	R451	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
	<del> </del>	<u> </u>				<u> </u>	1	
R303	<del></del>	M. RESISTOR CH 1/10W 560	1	R452	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K		
R304	ERJ6GEYG220	M. RESISTOR CH 1/10W 22	1	R453	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R305	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	R454	ERJ6GEY6821	M. RESISTOR CH 1/10W 820	1	
R307	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	1	R455	ERJ6GEYG391	M. RESISTOR CH 1/10W 390	1	
R308	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1	. R456	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	
R309, 10		M. RESISTOR CH 1/10W 100	2	R457	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
		M. RESISTOR CH 1/10W 1K	1	R458, 59	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R311				<u> </u>				
R313, 14	<b></b>	M. RESISTOR CH 1/10W 100	2	R460, 61	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	2	
R316, 17		M. RESISTOR CH 1/10W 10K	2	R462	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		
R318	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	R463	ERJ6GEY6101	M. RESISTOR CH 1/10W 100	1	
R319	ERJ6GEYG682	M. REISITOR CH 1/10W 6.8K	1	R464, 65	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	2	
R351	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	R466	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	
R353		M. RESISTOR CH 1/10W 3.3K	1	R467	ERJ6GEYG821	M. RESISTOR CH 1/10W 820	1	
				R468, 69	1		2	
R354		M. RESISTOR CH 1/10W 820	1	11111111		M. RESISTOR CH 1/10W 8.2K		
R355	ERJ6GEYG121	M. RESISTOR CH 1/10W 120	1	R470		M. RESISTOR CH 1/10W 1K		
R356	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	R471-74	ERJ6GEYG121	M. RESISTOR CH 1/10W 120	4	
R357, 58	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	R475-78	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	4	
R359		M. RESISTOR CH 1/10W 680	1	R479		M. RESISTOR CH 1/10W 15K	1	
R360		M. RESISTOR CH 1/10W 560	1	R480, 81		M. RESISTOR CH 1/10W 100	2	
			1	R482, 83		M. RESISTOR CH 1/10W 2. 2K	2	
R362	4	M. RESISTOR CH 1/10W 56			<del></del>			····
R363		M. RESISTOR CH 1/10W 100	1	R484, 85		M. RESISTOR CH 1/10W 1K	2	
. R365	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R486, 87		M. RESISTOR CH 1/10W 10K	2	
R366	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	R488-91	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	4	
R367		M. RESISTOR CH 1/10W 10K	1	R492-99	<del>                                     </del>	M. RESISTOR CH 1/10W 1.5K	8	
		M. RESISTOR CH 1/10W 390	1	R500-03		M. RESISTOR CH 1/10W 0	4	
R368						······································		
R369		M. RESISTOR CH 1/10W 680	1	R504-07		M. RESISTOR CH 1/10W 47	4	· · · · · · · · · · · · · · · · · · ·
R370	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	R508-11	<del></del>	M. RESISTOR CH 1/10W 3.3K	4	
R371	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R512-15	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	4	
R373		M. RESISTOR CH 1/10W 820	1	R516-19		M. RESISTOR CH 1/10W 4.7K	4	
R375		M. RESISTOR CH 1/10W 390	1	R520-23		M. RESISTOR CH 1/10W 100	4	
				L			+	
R376		M. RESISTOR CH 1/10W 100	1	R526			¦	
R377		M. RESISTOR CH 1/10W 680	1	R527		M. RESISTOR CH 1/10W 2.2K	1	
R379	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1	R528		M. RESISTOR CH 1/10W 10K	1	
R380	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1:	R530	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
		M. RESISTOR CH 1/10W 100	2	R531-33	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	3	
R384	<u> </u>	M. RESISTOR CH 1/10W 330	1	R534		M. RESISTOR CH 1/10W 220K	1	
			1	R535		M. RESISTOR CH 1/10W 680K		
R385		M. RESISTOR CH 1/10W 1K						
R386		M. RESISTOR CH 1/10W 100	1			M. RESISTOR CH 1/10W 10K	3	
R387, 88	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	R539		M. RESISTOR CH 1/10W 47K	1	
R391	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	R540, 41	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R393	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	R543, 44	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2	*
l uses					<del> </del>			
ROSO			_ i I		i .	i i	, j	1
1090								

VEP833	355B							_	<del></del>
Ref. No.	Part No.	Part Name & Description	Pes	Remarks Re	ef. No.	Part No.	Part Name & Description	Pcs	Remarks
R546		M. RESISTOR CH 1/10W 1K	1	R71			M. RESISTOR CH 1/10W 1K	1	
		M. RESISTOR CH 1/10W 4.7K	1	R71			M. RESISTOR CH 1/10W 2.7K	1	
								H	
		M. RESISTOR CH 1/10W 0	1	R71				_	
R551	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R71			M. RESISTOR CH 1/10W 100	1	
R552	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	R72	20	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R553	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	R72	21, 22	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
		M. REISITOR CH 1/10W 6.8K	1	R72	23	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M	1	
			H	R72			M. RESISTOR CH 1/10W 100	1	
		M. RESISTOR CH 1/10W 4.7K	-					1	
R556	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	R72			M. RESISTOR CH 1/10W 10K	<u> </u>	
R557, 58	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	2	R72	26	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M	1	
R559, 60	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	2	R72	27, 28	ERJ6GEYF123	M. RESISTOR CH 1/10W 12K	2	
R561		M. RESISTOR CH 1/10W 3. 3K	1	R72	29	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R562	ERJ6GEYG273	M. RESISTOR CH 1/10W 27K	1	R75			M. RESISTOR CH 1/10W 10K	1	
								-	
R563	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K		R75					
R564	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	R75	753		M. RESISTOR CH 1/10W 27K	_1	
R565	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K	- 1	R75	154	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	1	
R566	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	R75	55, 56	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	2	
R567		M. RESISTOR CH 1/10W 0	1				M. RESISTOR CH 1/10W 1.5K	2	
			-;				M. RESISTOR CH 1/10W 560	1	
		M. RESISTOR CH 1/10W 3.3K	1	. R75				<u> </u>	
		M. REISITOR CH 1/10W 6.8K	_1	R76			M. RESISTOR CH 1/10W 1.5K	1	ļ
R573, 74	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	2	R76	61	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	$L_1$	
R575		M. REISITOR CH 1/10W 6.8K	1	R76	162	ERJ6GEYG394	M. RESISTOR CH 1/10W 390K	1	
		M. RESISTOR CH 1/10W 10K	1	R76			M. RESISTOR CH 1/10W 270K	1	
			├-;	R76			M. RESISTOR CH 1/10W 390	1	
R577		M. RESISTOR CH 1/10W 100	╙					⊢-'	<del> </del>
R578	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	R76			M. RESISTOR CH 1/10W 1K	<u> </u>	ļl
R579	ERJ6GEYG223	M. RESISTOR GH 1/10W 22K	1	R7€	167	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7K	Li	<u>                                      </u>
R581		M. RESISTOR CH 1/10W 1.5K	1	R76	768	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1	
		M. REISITOR CH 1/10W 6.8K	1	R76			M. RESISTOR CH 1/10W 100	1	
R582							M. RESISTOR GH 1/10W 1K	- 1	
	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	R77				· ·	
R586	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1				M. RESISTOR CH 1/10W 100	2	
R601-03	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	3	R77	173	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M	1	
R604-06	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	3	R77	774	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R607	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	R77			M. RESISTOR CH 1/10W 10K	1	
			<del>                                     </del>	R77			M. RESISTOR CH 1/10W 1M	1	
R608		M. RESISTOR CH 1/10W 10K	-						
R609, 10	VRE0034E122	M. RESISTOR GH 1/10W 1.2K	2				M. RESISTOR CH 1/10W 12K	2	
R611	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	. R77	779	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R612	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R80	301	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	1 .
R613	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	R80	303	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
			2	R80			M. RESISTOR CH 1/10W 0	1	
R614, 15	ERJ6GEYG272		·					-	
R616-18	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	3						
R651	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	R80			M. RESISTOR CH 1/10W 3.3K	8	
R652	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R81	316-22	ERJ6GEYG391	M. RESISTOR CH 1/10W 390	7	
R653	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	R82	323	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R654	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	R85			M. RESISTOR CH 1/10W 100	1	
			<u>'</u>				M. RESISTOR CH 1/10W 270	1	
R655	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	<u> </u>	R85				-	<del> </del>
R656	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K		R85			M. RESISTOR CH 1/10W 100	<u> </u>	
R657	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	_1	R87	370-73	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	4	
R658	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K						ĺ	
R659	ERJ6GEYG394	M. RESISTOR CH 1/10W 390K	1	TG	31-G6	VJR0646	TEST POINT	6	
R660		M. RESISTOR CH 1/10W 150K	1					Г	
			1 :	TOS	301	VJR0646	TEST POINT	1	
R661	ERJ6GEYG181	M. RESISTOR CH 1/10W 180	<u> </u>					-	ļ
R662		M. RESISTOR CH 1/10W 1K					TEST POINT	1	<u> </u>
R664, 65	ERJ6GEYG122	M. RÉSISTOR CH 1/10W 1.2K	2	TP4			TEST POINT	1	
R666	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	TP4	403-05	VJR0646	TEST POINT	3	₹ <u></u>
R667	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1				TEST POINT	1	
			2				TEST POINT	3	
	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	4_					1	
R670	<del> </del>	M. RESISTOR CH 1/10W 1M	니				TEST POINT	-	<u> </u>
R671	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1				TEST POINT	1	
R672	ERJ6GEY6103	M. RESISTOR CH 1/10W 10K	1	TP7	751	VJR0646	TEST POINT	1	
R673	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M	1	<u> </u>					
			1	VI E	.551	VLQ0415	COIL	1	<del>                                     </del>
R674	ERJ6GEYF333		<u> </u>	VLS	.001	1240710	VV16	<del>  '</del>	<del></del>
R675		M. RESISTOR CH 1/10W 0	1	L  <b></b>				-	<del> </del>
R676	ERJ6GEY6222	M. RESISTOR CH 1/10W 2.2K	1				V. RESISTOR 5K	<u> </u>	
R701	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	VR3	R301	VRV0064B502	V. RESISTOR 5K	_1	<u> </u>
R702	ERJ6GEYG682	M. REISITOR CH 1/10W 6.8K	1				V. RESISTOR 100K	1	
		M. RESISTOR CH 1/10W 27K	1				V. RESISTOR 200	1	
R703							V. RESISTOR 500	2	<del>                                     </del>
R704	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	1					_	
R705, 06	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	2				V. RESISTOR 1K	2	
	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	2	VR4	R408-10	VRV0064B502	V. RESISTOR 5K	3	
R707, 08		M. RESISTOR CH 1/10W 560	1		459-66	VRV0064B102	V. RESISTOR 1K	8	
R707, 08 R709			1				V. RESISTOR 2K	1	
R709	************	THE RESISTED ON 17 TOW 1 50	∟՝				V. RESISTOR 5K	i	
R709 R710	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K			1004	VINTUUU-BUUUL	T. INCOTOTOR ON	, '	
R709 R710 R711	ERJ6GEYG152 ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1		OCE1 1.	VDVAAC 4D * AA	V DECICTOR +"	7	
R709 R710 R711 R712	ERJ6GEYG152 ERJ6GEYF561 ERJ6GEYG394	M. RESISTOR CH 1/10W 560 M. RESISTOR CH 1/10W 390K	1	VRE			V. RESISTOR 1K	1	
R709 R710 R711	ERJ6GEYG152 ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	VR6	R652	VRV0064B502	V. RESISTOR 5K	1	
R709 R710 R711 R712	ERJ6GEYG152 ERJ6GEYF561 ERJ6GEYG394 ERJ6GEYJ274	M. RESISTOR CH 1/10W 560 M. RESISTOR CH 1/10W 390K	1 1 1	VR6	R652	VRV0064B502			
R709 R710 R711 R712 R713	ERJ6GEYG152 ERJ6GEYF561 ERJ6GEYG394 ERJ6GEYJ274	M. RESISTOR CH 1/10W 560 M. RESISTOR CH 1/10W 390K M. RESISTOR CH 1/10W 270K	1	VR6	R652	VRV0064B502	V. RESISTOR 5K	1	
R709 R710 R711 R712 R713	ERJ6GEYG152 ERJ6GEYF561 ERJ6GEYG394 ERJ6GEYJ274	M. RESISTOR CH 1/10W 560 M. RESISTOR CH 1/10W 390K M. RESISTOR CH 1/10W 270K	1	VR6	R652	VRV0064B502	V. RESISTOR 5K	1	

Ref. No.		P84292A Part Name & Description	Pos	Remarks	Ref. No.	Part No.	Part Name & Description	Pos	Remarks
VR703		V. RESISTOR 5K	1	Velual Ve	1037	74ALS245ASJ	IC	1	T
		V. RESISTOR 1K	2		1038	SN74S1051NS	IG	1	
					1039, 40	74ALS541SJ	IC	2	
/R753	VRV0064B502	V. RESISTOR 5K	1				1C.	1	
				·	1G41	MC74HC32AF		+	
X401	VSX0270	CRYSTAL OSCILLATOR	1		1042		IG		
					1043	UPD71055GB	10	2	
		MISCELLANEOUS			1044, 45	MC74HC74AF	10	1	
					1046	MC74HC04AF	IC		
<u> </u>	VML2143	CARD PULLER	1		1050	T74HGT541AF	IC	1	
	VML2144	CARD PULLER	1		1C51	MC74HC74AF	IC	_1	
					1C52	MC74HC157AF	10	1	
				-	1053	MG74HG138AF	IC	1	
11	VEP84292A	F7 A PROC C. B. A.	1	(RTL)	1G54	MC74HC08AF	IG	1	
					1055	MB621926	IC	1	
					1C56	K6256CLG7L	10	1	
C1, C2	ECEV1CV470Q	E. GAPACITOR CH 16V 47U	2		1057	MC74HC157AF	IC	.1	
C3		C. CAPACITOR CH 50V 0.01U	1		1C58	UPD71055GB	IC	1	
C4, C5		E. CAPACITOR CH 16V 47U	2	-					
C6		G. CAPACITOR CH 50V 0. 01U	1	-	L1, L2	VLP0133	COIL	2	
		E. CAPACITOR CH 16V 47U	+		L3		COIL 1. 8UH	1	
C7			1					<del></del>	
C8					D1 D0	VJP3454B096	CONNECTOR (MALE)	2	
C9		E. CAPACITOR CH 16V 47U	!		P1, P2	VJP3635A068	CONNECTOR (MALE)	1	
C10		C. CAPACITOR CH 50V 0.01U			P3	VUFSCOORUGS	OUNTED FOR (MALE)	<del>-</del> -	<del> </del>
G20-23		G. GAPAGITOR CH 50V 0. 01U	4				M DEGLOTOD AU 4 /40W	<u> </u>	ļ
		G. GAPAGITOR CH 50V 0. 01U	2		R1-R8		M. RESISTOR CH 1/10W 47	8	
		C. CAPACITOR CH 25V 0. 1U	1		R9		M. RESISTOR CH 1/10W 10K	1	
		C. CAPACITOR CH 50V 18P	1		R10		M. RESISTOR CH 1/10W 47	1	
C41		C. CAPACITOR CH 50V 0.01U	_1		R11		M. RESISTOR CH 1/10W 10K	1	
G42	ECUM1H180JCN	C, CAPACITOR CH 50V 18P	1		R12		M. RESISTOR CH 1/10W 100	1	
C43-49		C. CAPACITOR CH 50V 0. 01U	7		R13, 14	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	2	
C60-64		C. CAPACITOR CH 50V 0. 01U	5		R15-22	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	8	
C65		C. CAPACITOR CH 25V 0.1U	1		R23	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1	
C66		C. CAPACITOR CH 50V 10P	1		R24, 25		M. RESISTOR CH 1/10W 10K	2	
C67		G. CAPACITOR CH 50V 15P	1		R26-28		M. RESISTOR CH 1/10W 330	3	
		C, CAPACITOR CH 50V 0.01U	6		R29		M. RESISTOR CH 1/10W 470	1	
C68-73			-2		R30-36		M. RESISTOR CH 1/10W 47	7	
C80, 81					R37		M. RESISTOR CH 1/10W 470	Ť	
C82-86		C. CAPACITOR CH 50V 0. 01U	5			L	M. RESISTOR CH 1/10W 47	8	
		E. GAPACITOR CH 50V 0.1U	3		R38-45			2	
C90		C. CAPACITOR CH 50V 0.01U	_1		R46, 47		M. RESISTOR CH 1/10W 470		
C91		E. CAPACITOR CH 16V 10U	_1		R49		M. RESISTOR CH 1/10W 0	1	
C92	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1		R50		M. RESISTOR CH 1/10W 330	1	ļ
C93	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		R51		M. RESISTOR CH 1/10W 0	1	
C94	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1		R52-56	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	_ 5	
C96, 97	ECUMTH470JCN	C. CAPACITOR CH 50V 47P	2		R57-59	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	3	i
G100-02	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	3		R60	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1	
G110-24	ECUMTH103KBN	C. CAPACITOR CH 50V 0.01U	15		R61	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
	ECUM1H103KBN	G. CAPACITOR CH 50V 0.01U	10		R62	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1	
					R66-69	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	4	
FL2	VLF1016A470	FILTER	1		R70-74	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	5	
					R76		M. RESISTOR CH 1/10W 0	1	
IG1, G2	MC74HC541AF	10	2		R78		M. RESISTOR CH 1/10W 10K	1	
	MC10H125M	10	1		R80, 81		M. RESISTOR CH 1/10W 1.5K	2	<del> </del>
104	MG74HG153F	1G	<del>-</del>		R82		M. RESISTOR CH 1/10W 5.6K	1	
105			2		R83		M. RESISTOR CH 1/10W 3. 9K	1	
106, C7	MC74HC541AF	1C	$-\frac{2}{1}$		R84, 85		M. RESISTOR CH 1/10W 1K	2	
1C8	MC10H124M	16					M. RESISTOR CH 1/10W 100	2	
1C9	MC74HC157AF	IC	1		R86, 87			4	
IC10	AD1893JST	IC	_1		R88-91		M. RESISTOR CH 1/10W 10K	1	
IC11	K6256CLG7L	16	1		R100		M. RESISTOR CH 1/10W 0		
IC12	T16GH7AF1216	10	1		R103, 04	<u> </u>	M. RESISTOR CH 1/10W 330	2	
IC13	K6256CLG7L	10	1		R110-32		M. RESISTOR CH 1/10W 47	23	
IG14	MN53030VPR	IC	1		R133-36		M. RESISTOR CH 1/10W 330	4	
IC15, 16	K6256CLG7L	1C	2		R137-40	ļ	M. RESISTOR CH 1/10W 3.3K	4	
1C17	74ACO4SJ	10	1		R141-46		M. RESISTOR CH 1/10W 1.5K	6	
1C18, 19	74AG374SJ	1G :	2		R147-50	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	4	
1010, 10	TMSD72274PH	IC	1		R151-55	<u> </u>	M. RESISTOR CH 1/10W 1.5K	5	
1G23	MC74HC4075F	1G	1		R163-65		M. RESISTOR CH 1/10W 0	3	
1023 1024	NJM78L05UA	IC	_ <u>;</u>		R170-78	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	9	
		IC .	1		R180-85	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	6	<del></del>
1025	MC4044M				R187-90	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	4	
1026	74ACO4SJ	IC						3	
1027	NJM78LO5UA	IC	_1		R194-96	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	<u> </u>	<del> </del>
1G28	MC4044M	1 <b>C</b>	_1			L	WEAT DOLLIT	- ا	
1030, 31	MC74HC541AF	IC	_2		TG1-G3	VJR0646	TEST POINT	3	<u> </u>
1G34	MC74HCO4AF	IG	1					ļ	
1C35	SN74S1051NS	10	1		TP1-P8	VJR0646	TEST POINT	8	
1036	74ALS541SJ	1C	1		TP10-20	EYF6CU	TEST POINT	.11	
	1							L	
	1					1	· · · · · · · · · · · · · · · · · · ·	_	

VEP84292A / VEP84293B

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Part   Part	VEP042	92A / VEI	042930					-	
COURT   15   COU	Ref. No.	Part No	Part Name & DescriptionP	es Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	Wer. No.	tare no.	and theme a perception	Nomen No					
VALUE   VALU	V1	VCVOE 10	CRYSTAL OSCILLATOR	1					
Name									
March   Marc				<del></del>					
March   Marc	ХЗ								
WILCHOLD   WILDING   WIL	Х4	VSX0391	GRYSTAL OSCILLATOR	1				-	
WILTHAM   ONE PALES					G4240			-	
MILY   MILY   MARY PALLER   1			MISCELLANEOUS	*	G4241	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
WEZ-144					G4242, 43	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
WILLIAM   CARP PRILER		VMI 2143	CARD PILLER	1	G4244, 45	ECUM1H103KBN	G. GAPAGITOR CH SOV 0.01U	2	
METAPORE				<u> </u>					
MERCANTRO DE SAN		VIILZ 144	OARD FOLLER	1					
METER PERSON   F. MOAN D. B. A.   1 GPU   1000								-	
Company   Comp									
CORPUTATION   COMPATTION OF DEPTH   COMPATTION OF DEPTH   CORPUTATION	<b>II</b> .	VEP84293B	F8 ADDA C. B. A.	1 (RTL)					
CARDING OF INCOMPANY   CAMPAD TIRE OF 1997   A. 10   A			· <u>l</u>						
14405.70   CONTRIBUTION   CAMPATTER OF 190   0.01   2   CONTRIBUTION   CAMPATTER OF 190   0.01   1   CONTRIBU					G4282, 83	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U		
CARGON_CON_CON_CON_CON_CON_CON_CON_CON_CON_C	C4001-04	ECUM1E104ZFN	G. CAPACITOR CH 25V 0.1U	4	G4284, 85	ECUM1H47OJCN	G. GAPACITOR CH 50V 47P	2	·
CARDIN   COMPAND TO BEACH TO BE SET				2	C4286, 87	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	2	
CHAPTING   CERTIFICATION   CAMPAGITOR   SAY   330   2								4	
GREEN   CONTINUENCE   CAMPACTOR OR 1287   0.10   2					L			_	
CAMPATT   COMMITTIONETS   CAMPATT									
CAMPAT   C									
MARTIN   SUMMINDORNE   CAPACITIER OIL SOW   0,100   2									
CAMPATTON   CORATINESSON   CAMPATTON   SOV   2	C4065, 66	ECEV1CV4700	E. CAPACITOR CH 16V 47U	2					
GROSS AF EXAMPLISADE   CAMADITION SWY 0.333   2   CAMADITION CORP. Y 0.10   2   CAMADITION CORP. Y 0.10   2   CAMADITION CORP. Y 0.10   1   CAMADITION CORP. Y 0.10   2   CAMADITION CORP. Y 0.10   1   CAMADITION COR	C4067, 68	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	2	C4298, 99				
CAMPAIN   CONTINUED NOTE   CAMPAIN TOR OF 18 P   1		ECEA1HGE330	E. CAPACITOR 50V 33U	2	C4300, 01	ECEV1CV4700	E. CAPACITOR CH 16V 47U	2	
CASTS   CONTINUED ON   CAPACITICS OF SY 0.10   1   1   1   1   1   1   1   1   1					C4302	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	1	
CAMPAIL   SEQUENTIFICATION   CAMPAILTING OF 18 PV   2								1	
CHAPTING   CONTINUED   CAPACITOR OF 16 V   220   1								10	
CAMPACT   COMMITTION CONTROLLED   CAMPACT TOR CHI   CAMPACT TOR				1					
CASTAN   CAMPACTOR CRIPT   C				4				-	
CA1126   COUNTETCAPERT   CAPACITOR OR 9.59   0.10   1   CASAS   CAPACITOR OR 9.59   0.00   2   CAPACITOR OR 9.59   0.00   2   CAPACITOR OR 9.59   0.00   2   CAPACITOR OR 9.59   0.00   1   CASAS   CAPACITOR OR 9.59   0.00	G4124			-1					
CAMPAINS   CONTINUED   CAMPAITING OF 18Y 10U   2   CAMPAITING OF 18Y 17U   1   CAMPAITING OF 18Y 17U   2   CAMPA	C4125	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1					
CAST   CAST	C4126	ECUM1E104ZFN	G. GAPAGITOR CH 25V O. 1U	1	G4348, 49	ECEVOJV1010	E. CAPACITOR CH6. 3V 100U	2	i
CAMPAIN   CAMPAIT   CAMP				2	G4350, 51	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
CA130   CONTINUED   C. CAPACITOR CH 169   470   1   C. CAPACITOR CH 169   7 0   C. CAPACITOR CH 169   C. CAP			L						
CASS   SECTION   CASS				<del></del>				1 7	
CH132   COMMISSIONEN   C. CAPAGITOR CH 55V   0. TU   C. CAPAGITO				<u> </u>					
C4133   EQUINISSOUND   CAPACITOR CH 50V 33P   1									
CA134   EQUINITION   C. CAPACITOR CH 25Y 0.1U 1   CA135   CECHNITISOUS   C. CAPACITOR CH 25Y 0.1U 1   CA136   CECHNITISO	G4132								
CA135   EQMINISSQUIN   CAPACITOR CH 50V 33P   1	C4133	ECUM1H330JCN	G. CAPACITOR CH 50V 33P	1	C4359, 60			-	
CAMPAITOR CHE 120/APP   C. CAPACITOR CH 25V   O. 1U   T	G4134	ECUM1E104ZFN	C. CAPACITOR CH 25V 0. 1U	1	G4381	ECEV1EN4R7Q	E. CAPACITOR CH 25V 4.7U		
CHISTORY   CAPACITOR CHE SY 47U   2	G4135	ECUM1H330JCN	G. CAPACITOR CH 50V 33P	1	G4382	ECUM1H822KBN	G. GAPAGITOR GH 50V 8200P	1	
CA130, 38   ESEVIDUATOR   C. CAPACITOR CHIS 3V   47U   2				1	G4383	ECUM1H222KBN	G. GAPACITOR CH 50V 2200P	7 7	
CA139.40   COMINEQUAR   C. CAPAGITOR CH 50V   S3P   2   CA385   VOCO030   C. CAPAGITOR CH 50V   S3P   2   CA385   VOCO030   C. CAPAGITOR CH 50V   S3P   2   CA385   COMINESTATION CH 50V   CA396   COMINESTATION CH 50V   CA396   COMINESTATION CH 50V   CA396   CA396   COMINESTATION CH 50V   CA396   CA39				2				1	
C4141,42   EQUINITIASQUEN   C. CAPACITOR CH 50V   230P   2							<del> </del>	1 1	
G-143, 44   EQUINITIZZENS   C. GAPACITOR CH 55V   220P   2   C4887   ECVIENARY   C. GAPACITOR CH 25V   C. 1U   4   C4888   EQUINITIZZENS   C. GAPACITOR CH 25V   C. 1U   4   C4888   EQUINITIZZENS   C. GAPACITOR CH 50V   2700P   1   C4750   EQUINITIZZENS   C. GAPACITOR CH 50V   C700P								+ ;	
Galage   Gument   Galage   Gument   Galage   G							<del></del>	-	
C4149   CEVITOVIDOD   C. CAPAGITOR CH 16V   10U   1								<del>  '</del>	<u> </u>
C4150	C4145-48	ECUM1E104ZFN	C. CAPACITOR CH 25V 0. 1U	4			·	1.	
C4151   ECUMINITOLEMN   C. GAPACITOR CH 50V   0.10   1	G4149	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	C4389	ECUM1H182KBN		1	
C4152   S3   ECEVICYTOOO   E. CAPACITOR CH 16V   10U   2   C4392   ECUMINIOSKEN   C. CAPACITOR CH 16V   22U   2   C4393   ECCVINITIOSKEN   C. CAPACITOR CH 16V   47U   1   C4160   ECUMINISTICAL   C. CAPACITOR CH 50V   150P   1   C4396   ECUMINIOSKEN   C. CAPACITOR CH 50V   150P   1   C4396   ECUMINIOSKEN   C. CAPACITOR CH 50V   10U   1   C4396   ECUMINIOSKEN   C. CAPACITOR CH 50V   0.1U   1   C4398   ECUMINIOSKEN   C. CAPACITOR CH 16V   0.3U   1   C4400   ECEVICATION   C. CAPACITOR CH 16V   0.3U   1   C4401   ECEVICATION   C. CAPACITOR CH 16V   0.3U   1   C4401   ECEVICATION   C. CAPACITOR CH 16V   0.3U   1   C4401   ECUMINIOSKEN   C. CAPACITOR CH 16V   0.0U   1   C4401   ECUMINIOSKEN   C. CAPACITOR CH 16V   0.0U   1   C4401   ECUMINIOSKEN   C. CA	G4150	ECUM1E104ZFN	G. CAPACITOR CH 25V 0.1U	1	G4390	ECUM1H151JCN	G. CAPACITOR CH 50V 150P	1	
C4152.53 EGEVIOVIDOD	G4151	ECUM1H104ZFN	G, CAPACITOR CH 50V 0.1U	1	C4391	ECUM1H272KBN	C. CAPACITOR CH 50V 2700P	1	
C4154, 55   ECEVICV2200   E. CAPACITOR CH 16V   22U   2   C4393   ECEVICV4700   E. CAPACITOR CH 16V   47U   1   C4396   ECUMIHISTJUCH   C. CAPACITOR CH 50V   150P   1   C4395   ECUMIHISTJUCH   C. CAPACITOR CH 50V   0.01U   1   C4395   ECUMIHIDAKEN   C. CAPACITOR CH 50V   0.00P   1   C4395   ECUMIHIDAKEN   C. CAPACITOR CH 50V   0.00P   1   C4395   ECUMIHIDAKEN   C. CAPACITOR CH 50V   0.00P   1   C4396   ECUMIHIDAKEN   C. CAPACITOR CH 50V   0.00P   1   C4396   ECUMIHIDAKEN   C. CAPACITOR CH 50V   0.00P   1   C4396   ECUMIHIDAKEN   C. CAPACITOR CH 50V   0.00P   1   C4398   ECUMIHIDAKEN   C. CAPACITOR CH 50V   0.00P   1   C4398   ECUMIHIDAKEN   C. CAPACITOR CH 16V   0.30U   1   C4406   ECEVICV2200   E. CAPACITOR CH 16V   0.30U   1   C4406   ECEVICV200   E. CAPACITOR CH 16V   0.30U   1   C4406   ECEVICV200   E. CAPACITOR CH 16V   0.30U   1   C4406   ECEVICV200   E. CAPACITOR CH 16V   0.30U   1   C4406   ECUMICIGARIA   E. CAPACITOR CH 16V   0.30U   1   C4407   E. CAPACITOR CH 16V   0.30U   1   C4408   ECUMICIGARIA   E. CAPACITOR CH 16V   0.30U   1   C4409   ECUMIHIDAKEN   C. CAPACITOR CH 16V   0.00U   1   C4409   ECUMIHIDAKE				2	C4392	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	1	
C4190   EQUMINISTUCIN   C. CAPACITOR CH 50V   150P   1   C4394   EQUMINISPOUN   C. CAPACITOR CH 50V   39P   1   C4190   EQUMINISTUCIN   C. CAPACITOR CH 50V   1   C4395   EQUMINISTOCIN   C. CAPACITOR CH 50V   0.10   1   C4196   EQUMINISTOCIN   C. CAPACITOR CH 50V   0.10   1   C4396   EQUMINISTOCIN   C. CAPACITOR CH 15V   0.20   1   C4397   EQUVINISTAND   C. CAPACITOR CH 15V   0.20   1   C4398   EQUMINISTAND   C. CAPACITOR CH 15V   0.20   1   C4398   EQUMINISTAND   C. CAPACITOR CH 15V   0.20   1   C4399   EQUMINISTAND   C. CAPACITOR CH 15V   0.20   1   C4400   EQUINISTAND   C. CAPACITOR CH 15V   0.20   1   C4405   EQUINISTAND   CAPACITOR CH 15V   0.20   1   C4405   EQUINISTAND   CAPACITOR CH 15V   0.20   1   C4								1	
C4160   ECUMIHITOSTOR   C. CAPACITOR CH 50V   150P   1     C4395   ECUMIHITOSKIN   C. CAPACITOR CH 50V   0.01U   1     C4362   ECUMIHIO4ZFN   C. CAPACITOR CH 50V   0.1U   2   C4396   ECUMIHIO4ZFN   C. CAPACITOR CH 50V   0.027U   1     C4396   ECUMIHIO4ZFN   C. CAPACITOR CH 50V   0.00P   1     C4396   ECUMIHIO2XRS   C. CAPACITOR CH 50V   0.00P   1     C4396   ECUMIHIO2XRS   C. CAPACITOR CH 16V   22U   1     C4396   ECUMIHIO2XRS   C. CAPACITOR CH 16V   22U   1     C4396   ECUMIHIO2XRS   C. CAPACITOR CH 16V   0.39U   1     C4399   ECUMIHIO334KS   C. CAPACITOR CH 16V   0.39U   1     C4399   ECUMIHIO334KS   C. CAPACITOR CH 16V   0.39U   1   C4490   ECUMICO34KS   C. CAPACITOR CH 16V   0.39U   1   C4491   ECEVICV2200   E. CAPACITOR CH 16V   0.39U   1   C4491   ECUMIE1042FN   C. CAPACITOR CH 16V   0.39U   1   C4494   ECUMIE1042FN   C. CAPACITOR CH 16V   0.39U   1   C4494   ECUMIE1042FN   C. CAPACITOR CH 16V   0.39U   1   C4495   ECUMIE1042FN   C. CAPACITOR CH 16V   0.39U   1   C4496   ECUMIE1042FN   C. CAPACITOR CH 16								1	
C4162 ECUMINITIOAZEN C. CAPACITOR CH 25V 0. 1U 2 C4163, 64 ECUMITEIOAZEN C. CAPACITOR CH 25V 0. 1U 2 C4163, 64 ECUMITEIOAZEN C. CAPACITOR CH 25V 0. 1U 2 C4163 ECUMINITIOZUCN C. CAPACITOR CH 25V 0. 1U 2 C4163 ECUMINITIOZUCN C. CAPACITOR CH 50V 1000P 1 C4169 ECUMINITIOZUCN C. CAPACITOR CH 50V 1000P 1 C4169 ECUMINITIOZUCN C. CAPACITOR CH 16V 10U 1 C4169 ECUMINITIOZUCN C. CAPACITOR CH 16V 10U 1 C4171 ECEVIONATOO E. CAPACITOR CH 16V 10U 1 C4180 ECCFINATIO C. CAPACITOR CH 16V 10U 1 C4180 ECCFINATIO C. CAPACITOR CH 16V 10U 1 C4191 ECEVIOVATOO E. CAPACITOR CH 25V 0. 1U 1 C4192 ECUMICIOAJP C. CAPACITOR CH 25V 0. 1U 1 C4193 ECCMINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4194-96 ECUMIEIOAZEN C. CAPACITOR CH 16V 10U 1 C4193 ECCVIOVATOO E. CAPACITOR CH 25V 0. 1U 3 C4194 ECCMINITIOAZEN C. CAPACITOR CH 16V 0. 1U 1 C4194 ECCMINITIOAZEN C. CAPACITOR CH 16V 0. 1U 1 C4194 ECCMINITIOAZEN C. CAPACITOR CH 16V 0. 1U 1 C4194 ECCMINITIOAZEN C. CAPACITOR CH 16V 0. 1U 1 C4404 ECCMINITIOAZEN C. CAPACITOR CH 16V 0. 1U 1 C4405 ECCVINITIOAZEN C. CAPACITOR CH 16V 0. 39U 1 C4406 ECCMINITIOAZEN C. CAPACITOR CH 16V 0. 39U 1 C4407 ECCMINITIOAZEN C. CAPACITOR CH 16V 0. 39U 1 C4408 ECCVICVATOO E. CAPACITOR CH 16V 0. 39U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 16V 0. 39U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 16V 0. 39U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 16V 0. 39U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 16V 0. 39U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 ECCVINITIOAZEN C. CAPACITOR CH 25V 0. 1U 1 C4409 EC								+ +	
C4167					<del></del>			<b>├</b> ┆	
C4167 ECUMIHOZJON C. CAPACITOR CH 50V 1000P 1								₽-	
C4169   ECWH1221JCN   C, CAPACITOR CH 50V   220P   1     C4399   ECWH13394KBM   C, CAPACITOR CH 16V   0.39U   1   C4100   ECEVICV1000   E, CAPACITOR CH 16V   10U   1   C4400   ECEVICV2200   E, CAPACITOR CH 16V   22U   1   C4101   ECEVICV1000   E, CAPACITOR CH 16V   0.1U   2   C4101   ECEVICV1000   E, CAPACITOR CH 16V   0.1U   2   C4101   ECEVICV1000   E, CAPACITOR CH 16V   0.1U   1   C4403   ECUMIC334KBM   C, CAPACITOR CH 16V   0.39U   1   C4404   ECUMIC334KBM   C, CAPACITOR CH 16V   0.39U   1   C4193   ECEVICV1010   E, CAPACITOR CH 25V   0.1U   1   C4405   ECHU1C104J   P, CAPACITOR CH 16V   0.39U   1   C4194   ECEVICV1000   E, CAPACITOR CH 16V   0.39U   1   C4405   ECHU1C104J   P, CAPACITOR CH 16V   0.39U   1   C4197   ECEVICV1000   E, CAPACITOR CH 16V   0.1U   1   C4406   ECUMIC334KBM   C, CAPACITOR CH 16V   0.39U   1   C4197   ECEVICV1000   E, CAPACITOR CH 16V   0.1U   1   C4407   ECUMIH102KBN   C, CAPACITOR CH 16V   0.39U   1   C4198   ECEVICV1000   E, CAPACITOR CH 16V   0.1U   1   C4408   ECEVICV1000   E, CAPACITOR CH 16V   0.0U   1   C4408   ECEVICV1000   E, CAPACITOR CH 16V   0.0U   1   C4201   ECUMIE104ZFN   C, CAPACITOR CH 16V   0.0U   1   C4201   ECEVICV1000   E, CAPACITOR CH 16V   0.0U   1   C4202   ECEVICV1000   E, CAPACITOR CH 16V   0.0U   1   C4203   ECEVICV1000   E, CAPACITOR CH 16V   10U   1   C4413   ECEVICV1000   E, CAPACITOR CH 16V   10U   1   C4414   ECEVICV1000   E, CAPACITOR CH 16V   10U   1   C4204   ECEVICV1000   E, CAPACITOR CH 16V   10U   1   C4205   ECEVICV1000   E, CAPACITOR CH 16V   10U   1   C	C4163, 64	ECUM1E104ZFN	C. CAPACITOR CH 25V 0. 1U	2				11	
C4169 ECUMITAZIJON C. CAPACITOR CH 50V 220P 1 C4171 EGEVICNIO0Q E. CAPACITOR CH 16V 10U 1 C4180 EGGVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4180 EGGVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4191 EGEVICVATOQQ E. CAPACITOR CH 16V 47U 1 C4191 EGEVICVATOQQ E. CAPACITOR CH 16V 47U 1 C4192 EGUMICIOLAGEN C. CAPACITOR CH 16V 47U 1 C4193 EGUMICIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4194 EGUMICIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4194 EGUMICIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4194 EGUMICIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4194 EGUMICIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4194 EGUMICIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4197 EGEVICVATOQQ E. CAPACITOR CH 16V 10U 1 C4198 EGUVICVATOQQ E. CAPACITOR CH 16V 10U 1 C4199 EGUMICIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4199 EGUMICIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4199 EGUMICIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4199 EGUMICIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4200 EGUMINIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4201 EGUMICIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4202 EGUMICIOLAGEN C. CAPACITOR CH 16V 0. 1U 1 C4203 EGUMICIOLAGEN C. CAPACITOR CH 16V 10U 1 C4204 EGEVICVATOQQ E. CAPACITOR CH 16V 10U 1 C4205 EGEVICVIOQQ E. CAPACITOR CH 16V 10U 1 C4206 EGEVICVIOQQ E. CAPACITOR CH 16V 10U 1 C4207 EGUMICIOLAGEN C. CAPACITOR CH 16V 10U 1 C4208 EGEVICVIOQQ E. CAPACITOR CH 16V 10U 1 C4209 EGEVICVIOQQ E. CAPACITOR CH 16V 10U 1 C4200 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4201 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4202 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4203 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4204 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4205 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4206 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4207 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4208 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4209 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4209 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4209 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4209 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4209 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4209 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C4209 EGEVICNIOQQ E. CAPACITOR CH 16V 10U 1 C	C4167	ECUMTH102JCN	C. CAPACITOR CH 50V 1000P	1	G4398	ECUM1E473KBN	C. CAPACITOR CH 25V 0. 047U	1	
C4171 ECEVICNTIOOD E. CAPACITOR CH 16V 10U 1  C4180 ECGF1H331J C. CAPACITOR CH 16V 330P 1  C4191 ECEVICV470Q E. CAPACITOR CH 25V 0.1U 1  C4192 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4193 ECEVOLYTOQ E. CAPACITOR CH 25V 0.1U 3  C4194 ECEVICV470Q E. CAPACITOR CH 25V 0.1U 3  C4194 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4195 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 3  C4196 ECUMIE104ZFN C. CAPACITOR CH 16V 0.39U 1  C4197 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4198 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4199 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4190 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4191 ECEVICV100Q E. CAPACITOR CH 25V 0.1U 1  C4192 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4193 ECEVICV100Q E. CAPACITOR CH 25V 0.1U 1  C4194 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4195 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4200 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4201 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4201 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4202 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4203 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4204 ECEVICV100Q E. CAPACITOR CH 25V 0.1U 3  C4410 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C4204 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4205 ECEVOJV101Q E. CAPACITOR CH 16V 10U 1  C4206 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4207 ECUMIE104ZFN C. CAPACITOR CH 16V 10U 1  C4208 GEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 GEVICV100Q E. CAPACITOR CH 16V 10U 1  C4209 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4201 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4202 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4203 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4204 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4205 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4206 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4207 ECUMIE104ZFN C. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4209 ECEVICV10QQ E. CAPACITOR CH 16V 10U 1  C4201 ECUMIE104ZFN C. CAPA				1	C4399	ECUM1C394KBM	C. CAPACITOR CH 16V 0. 39U	$L^{\tilde{1}}$	
C4180 ECCF1H33TJ C. CAPACITOR 50V 330P 1  C4191 ECEVICV470Q E. CAPACITOR CH 16V 47U 1  C4192 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 1  C4193 ECCF00JV101Q E. CAPACITOR CH 25V 0. 1U 1  C4194-96 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 3  C4197 ECCF1CV100Q E. CAPACITOR CH 25V 0. 1U 3  C4198 ECCF1CV100Q E. CAPACITOR CH 25V 0. 1U 3  C4199 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 1  C4199 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 1  C4199 ECUMIE104ZFN C. CAPACITOR CH 16V 10U 1  C4199 ECUMIE104ZFN C. CAPACITOR CH 16V 10U 1  C4199 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 1  C4200 ECUMIH103KBN C. CAPACITOR CH 25V 0. 1U 1  C4201-03 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 3  C4204 ECCF1CV100Q E. CAPACITOR CH 25V 0. 1U 3  C4204 ECCF1CV100Q E. CAPACITOR CH 25V 0. 1U 3  C4204 ECCF1CV100Q E. CAPACITOR CH 25V 0. 1U 3  C4205 ECCF1CV100Q E. CAPACITOR CH 16V 10U 1  C4206 ECCF1CV100Q E. CAPACITOR CH 16V 10U 1  C4207 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 3  C4408 ECCF1CV100Q E. CAPACITOR CH 25V 0. 1U 3  C4409 ECCF1CV100Q E. CAPACITOR CH 25V 0. 1U 3  C4411 ECUMIH33KBN C. CAPACITOR CH 25V 0. 1U 1  C4208 ECCF1CV100Q E. CAPACITOR CH 35V 0. 1U 1  C4209 ECCF1CV100Q E. CAPACITOR CH 35V 0. 1U 1  C4201 ECCF1CV100Q E. CAPACITOR CH 35V 0. 1U 1  C4202 ECCF1CV100Q E. CAPACITOR CH 35V 0. 1U 1  C4203 ECCF1CV100Q E. CAPACITOR CH 35V 0. 1U 1  C4204 ECCF1CV100Q E. CAPACITOR CH 35V 0. 1U 1  C4205 ECCF1CV100Q E. CAPACITOR CH 35V 0. 30QU 1  C4206 ECCF1CV100Q E. CAPACITOR CH 35V 0. 30QU 1  C4207 ECCF1CV100Q E. CAPACITOR CH 35V 0. 68U 1  C4208 ECCF1CV100Q E. CAPACITOR CH 35V 0. 68U 1  C4209 ECCF1CV100Q E. CAPACITOR CH 35V 0. 1U 4  C4201 ECCF1CV100Q E. CAPACITOR CH 35V 0. 68U 1  C421-24 ECUMIE104ZFN C. CAPACITOR CH 35V 0. 1U 4  C421-24 ECUMIE104ZFN C. CAPACITOR CH 35V 0. 1U 4  C4225 ECCF1CV10QQ E. CAPACITOR CH 16V 10U 1  C4226 ECCF1CV10QQ E. CAPACITOR CH 35V 0. 1U 4  C4227-24 ECUMIE104ZFN C. CAPACITOR CH 16V 10U 1  C4228 ECCF1CV10QQ E. CAPACITOR CH 16V 10U 1  C4229 ECCF1CV10QQ E. CAPACITOR CH 16V 10U 2  C4221-24 ECUMIE104ZFN C. CAPACITOR CH 16V 10U 1								1	
C4191 ECEVICVATOQ E. CAPACITOR CH 16V 47U 1  C4192 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 1  C4193 ECEVOJV101Q E. CAPACITOR CH 25V 0. 1U 1  C4194-96 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 3  C4194-96 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 3  C4197 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4198 ECEVICV10Q E. CAPACITOR CH 16V 10U 1  C4199 ECUMIE104ZFN C. CAPACITOR CH 16V 47U 1  C4406 ECUMIE104ZFN C. CAPACITOR CH 16V 10U 1  C4407 ECUMIH102KBN C. CAPACITOR CH 16V 10U 1  C4408 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4409 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4409 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4400 ECUMIH103KBN C. CAPACITOR CH 25V 0. 1U 3  C4401 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 3  C44020 ECUMIH103KBN C. CAPACITOR CH 25V 0. 1U 3  C4403 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C44040 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4409 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4400 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 1  C4401 ECEWICV100Q E. CAPACITOR CH 25V 0. 1U 1  C4401 ECEWICV100Q E. CAPACITOR CH 25V 0. 1U 1  C4403 ECEVICV100Q E. CAPACITOR CH 25V 0. 1U 1  C4404 ECEVICV100Q E. CAPACITOR CH 25V 0. 1U 1  C4409 ECEVICV100Q E. CAPACITOR CH 25V 0. 1U 1  C4409 ECEVICV100Q E. CAPACITOR CH 25V 0. 1U 1  C4401 ECEWICV10Q E. CAPACITOR CH 25V 0. 1U 1  C4401 ECEWICV10Q E. CAPACITOR CH 25V 0. 1U 1  C4402 ECEVICV10Q E. CAPACITOR CH 25V 0. 1U 1  C4403 ECEVICV10Q E. CAPACITOR CH 25V 0. 1U 1  C4404 ECEVICV10Q E. CAPACITOR CH 25V 0. 1U 1  C4411 ECEWICV10Q E. CAPACITOR CH 35V 0. 68U 1  C4412 ECEWICV10Q E. CAPACITOR CH 35V 0. 68U 1  C4413 ECEVICV10Q E. CAPACITOR CH 35V 0. 68U 1  C4414 ECEVICV10Q E. CAPACITOR CH 35V 0. 68U 1  C4416 ECEVICV10Q E. CAPACITOR CH 35V 0. 68U 1  C4416 ECEVICV10Q E. CAPACITOR CH 35V 0. 68U 1  C4411 ECEVICV10Q E. CAPACITOR CH 35V 0. 68U 1  C4412 ECUMIE104ZFN C. CAPACITOR CH 35V 0. 68U 1  C4414 ECEVICV10Q E. CAPACITOR CH 35V 0. 68U 1  C4415 ECEVICV10Q E. CAPACITOR CH 35V 0. 68U 1  C4416 ECEVICV10Q E. CAPACITOR CH 35V 0. 1U 2  C4420 ECEVICV10Q E. CAPACITOR CH 35V 0. 1U 2								2	
C4192   ECUMIE104ZFN   C. CAPACITOR CH 25V   O. 1U   1   C4405   ECUMIC394KBM   C. CAPACITOR CH 16V   O. 39U   1   C4405   ECUMIE104ZFN   C. CAPACITOR CH 25V   O. 1U   3   C4406   ECUMIE104ZFN   C. CAPACITOR CH 25V   O. 1U   3   C4406   ECUMIE104ZFN   C. CAPACITOR CH 16V   O. 39U   1   C4406   ECUMIE104ZFN   C. CAPACITOR CH 16V   O. 39U   1   C4406   ECUMIE104ZFN   C. CAPACITOR CH 16V   O. 39U   1   C4407   ECUMIE104ZFN   C. CAPACITOR CH 16V   O. 39U   1   C4408   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10U   1   C4408   ECEVICV100Q   E. CAPACITOR CH 16V   O. 39U   1   C4408   ECEVICV100Q   E. CAPACITOR CH 16V   O. 39U   1   C4408   ECEVICV100Q   E. CAPACITOR CH 16V   O. 39U   1   C4408   ECEVICV100Q   E. CAPACITOR CH 16V   O. 39U   1   C4409   ECUMIE104ZFN   C. CAPACITOR CH 16V   O. 39U   1   C4409   ECUMIE104ZFN   C. CAPACITOR CH 16V   O. 39U   1   C4409   ECEVICV100Q   E. CAPACITOR CH 16V   O. 39U   1   C4409   ECEVICV100Q   E. CAPACITOR CH 16V   O. 39U   1   C4409   ECEVICV100Q   E. CAPACITOR CH 16V   O. 39U   1   C4409   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4409   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4411   ECUMIE104ZFN   C. CAPACITOR CH 25V   O. 1U   1   C4409   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4413   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4414   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4414   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4416   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4416   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4416   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4416   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4416   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4416   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4416   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4416   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4416   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4416   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4416   ECEVICV100Q   E. CAPACITOR CH 16V   O. 10   1   C4								<del>                                     </del>	
C4193 ECEVOJV101Q E. CAPACITOR CH6. 3V 1000 1  C4194-96 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 3  C4197 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4198 ECEVICV100Q E. CAPACITOR CH 16V 47U 1  C4199 ECUMIE104ZFN C. CAPACITOR CH 16V 47U 1  C4199 ECUMIE104ZFN C. CAPACITOR CH 25V 0. 1U 1  C4200 ECUMIH103XBN C. CAPACITOR CH 50V 0. 01U 1  C4201 ECUMIH103XBN C. CAPACITOR CH 50V 0. 01U 1  C4204 ECEVICV100Q E. CAPACITOR CH 25V 0. 1U 3  C4204 ECEVICV100Q E. CAPACITOR CH 25V 0. 1U 3  C4205 ECEVICV100Q E. CAPACITOR CH 6V 10U 1  C4206 ECEVICV100Q E. CAPACITOR CH 6V 10U 1  C4207 ECUMIH103XBN C. CAPACITOR CH 25V 0. 1U 3  C4208 ECEVICV100Q E. CAPACITOR CH 25V 0. 1U 3  C4211 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4208 ECEVICV100Q E. CAPACITOR CH 16V 10U 2  C4211 ECEVICV100Q E. CAPACITOR CH 16V 10U 2  C4212-24 ECUMIE104ZFN C. CAPACITOR CH 16V 10U 1  C4216 ECEVICV100Q E. CAPACITOR CH 16V 10U 2  C4217 ECEVICV100Q E. CAPACITOR CH 16V 10U 2  C4218 ECEVICV100Q E. CAPACITOR CH 16V 10U 2  C4219 ECEVICV100Q E. CAPACITOR CH 16V 10U 2  C4210 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C4211 ECEVICV100Q E. CAPACITOR CH 16V 10U 2  C4212-24 ECUMIE104ZFN C. CAPACITOR CH 16V 10U 2  C4213 ECEVICV100Q E. CAPACITOR CH 16V 10U 2  C42141 ECEVICV100Q E. CAPACITOR CH 16V 10U 2  C4215 ECEVICV100Q E. CAPACITOR CH 16V 10U 2  C4216 ECEVICV100Q E. CAPACITOR CH 16V 10U 2  C4217 ECUMIE104ZFN C. CAPACITOR CH 16V 10U 2								+;	
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C4474, 75 C4501-03 C4504 C4505, 06 C4507 C4508, 09 C4510 C4511 C4512 C4513 C4514, 15 C4516, 17 C4518 C4519	ECUM1E104ZFN ECUM1E104ZFN EGEV1GV100Q ECUM1G474KBM ECUM1H103KBN ECUM1H472KBN ECEV1GV100Q ECEV1HV4R7Q ECUM1H223KBN VGF2JAB681J	G. CAPAGITOR CH 25V 0.1U C. CAPAGITOR CH 25V 0.1U E. CAPAGITOR CH 16V 10U C. CAPAGITOR CH 16V 0.47U C. CAPAGITOR CH 50V 0.47U C. CAPAGITOR CH 50V 4700P E. CAPAGITOR CH 16V 10U E. CAPAGITOR CH 50V 4.7U	2 3 1 2 1 2		1G4345 1G4381 1G4382	NJM4580ED NJM4580ED	IC IC	1	
C4501-03 C4504 C4505, 06 C4507 C4508, 09 C4510 C4511 C4512 C4513 C4514, 15 C4516, 17 C4518 C4519	ECUM1E104ZFN EGEV1CV100Q EGUM1C474KBM EGUM1H103KBN EGUM1H472KBN EGEV1CV100Q ECEV1HV4R7Q EGUM1H223KBN VGF2JAB681J	C. CAPACITOR CH 25V 0. 1U E. CAPACITOR CH 16V 10U C. CAPACITOR CH 16V 0. 47U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 4700P E. CAPACITOR CH 16V 10U E. CAPACITOR CH 50V 4. 7U	3 1 2 1 2		104381 104382	NJM4580ED	IC .		
C4504 C4505, 06 C4507 C4508, 09 C4510 C4511 C4512 C4513 C4514, 15 C4516, 17 C4518 C4519	ECEV1CV100Q ECUM1C474KBM ECUM1H103KBN ECUM1H472KBN ECEV1CV100Q ECEV1HV4R7Q ECUM1H223KBN VCF2JAB681J	E. CAPACITOR CH 16V 10U C. CAPACITOR CH 16V 0. 47U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 4700P E. CAPACITOR CH 16V 10U E. CAPACITOR CH 50V 4. 7U	1 2 1 2		I C4382			÷	
C4505, 06 C4507 C4508, 09 C4510 C4511 C4512 C4513 C4514, 15 C4516, 17 C4518 C4519	ECUM16474KBM ECUM1H103KBN ECUM1H472KBN ECEV1CV100Q ECEV1HV4R7Q ECUM1H223KBN VCF2JAB681J	C. CAPAGITOR CH 16V 0. 47U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 50V 4700P E. CAPAGITOR CH 16V 10U E. CAPAGITOR CH 50V 4. 7U	1 2				IC	- 1	
C4507 C4508, 09 C4510 C4511 C4512 C4513 C4514, 15 C4516, 17 C4518 C4519	ECUM1H103KBN ECUM1H472KBN ECEV1CV100Q ECEV1HV4R7Q ECUM1H223KBN VCF2JAB681J	G. GAPACITOR CH 50V 0.01U C. GAPACITOR CH 50V 4700P E. GAPACITOR CH 16V 10U E. GAPACITOR CH 50V 4.7U	1 2			CXA1102M	10	1	
C4508, 09 C4510 C4511 C4512 C4513 C4514, 15 C4516, 17 C4518 C4519	ECUM1H472KBN ECEV1CV100Q ECEV1HV4R7Q ECUM1H223KBN VCF2JAB681J	C. CAPACITOR CH 50V 4700P E. CAPACITOR CH 16V 10U E. CAPACITOR CH 50V 4. 7U	-	3 1	1C4384, 85		10	2	
C4510 G4511 C4512 C4513 G4514, 15 C4516, 17 C4518 C4519	ECEV1CV100Q ECEV1HV4R7Q ECUM1H223KBN VCF2JAB681J	E. CAPACITOR CH 16V 10U E. GAPACITOR CH 50V 4. 7U	-			MC14052BF	10	1	
G4511 G4512 G4513 G4514, 15 G4516, 17 G4518 G4519	ECEV1HV4R7Q ECUM1H223KBN VCF2JAB681J	E. GAPACITOR CH 50V 4. 7U			I C4388	NJM4580ED	IC	1	
C4512 C4513 C4514, 15 C4516, 17 C4518 C4519	ECUM1H223KBN VCF2JAB681J		1		IG4389	AN78NO9	IG ·	1	
C4513 C4514, 15 C4516, 17 C4518 C4519	VCF2JAB681J		1			AN79NO9	IG	_1	
C4516, 17 C4518 C4519	FCUM1C474KBM	G. CAPACITOR 630V 680P	1		104391, 92		1C	2	
G4518 G4519		C. CAPACITOR CH 16V 0.47U	2		1C4461-63		10	3	
C4519		C. CAPACITOR CH 50V 0.01U	2			NJM78L05UA	IC IO	1	
		C, CAPACITOR CH 25V 0.1U	1			NJM79L05UA	IC .	- 1	
G4520		E. CAPACITOR CH 16V 22U	1		104466 104501	MC14053BF AN78NO9	10 10	<del>-</del> 1	
0.4504		C. CAPACITOR CH 50V 0. 01U	1			SN74S1051NS	16	- 2	
		G. GAPACITOR 400V 6800P E. GAPACITOR CH 16V 22U	+		104553	74ALS245ASJ	10	1	
		G. GAPACITOR 400V 6800P	╗		104554	74ALS541SJ	IC	1	
		G. CAPACITOR CH 50V 470P	1		I C4555	74F04SJ	1 <b>G</b>	1	
		E. CAPACITOR CH 16V 47U	1		1G4556	74AC139SJ	IC	1	
		C. CAPACITOR CH 25V 0.1U	1		IC4557, 58	UPD71055GB	IC	2	
C4553-56	ECUMTH103KBN	C. CAPACITOR CH 50V 0.01U	4						
C4558	ECUM1H103KBN	G. CAPACITOR CH 50V 0.01U	1		L4121	VLQ0163J100	COIL 10UH	_1	
C4559, 60	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2		L4191		COIL 10UH	_1	
			_		L4381	VLQ0423J472	COIL 4700UH	_1	
D4001, 02		DIODE	2		P4001, 02	VJP3454B096	CONNECTOR (MALE)		
04061, 62		D10DE D10DE	2		74001,02	101 34345030	OUNIED FOR (MALL)		
D4221, 22 D4281, 82		DIODE	2		Q4221	2SD1994A-R	TRANSISTOR	1	
		DIODE	1		Q4222	2SB1322A-R	TRANSISTOR	1	
		DIODE	3		Q4223	2SD1994A-R	TRANSISTOR	1	
		DIODE	1		Q4224	2SB1322A-R	TRANSISTOR	1	
	MA152A	DIODE	3		Q4225	2SD602A-R	TRANSISTOR	1	
					Q4226-29		TRANSISTOR	4	1
FL4381	EIR70F012B	TRANSFORMER	1		Q4230	2SB710A-R	TRANSISTOR	_1	
		FILTER	1		Q4281	2SD1994A-R	TRANSISTOR	1	
		FILTER	2		Q4282	2SB1322A-R	TRANSISTOR	_ <u>'</u>	
FL4551	VLF0941C223	FILTER	4		Q4283 Q4284	2SD1994A-R 2SB1322A-R	TRANSISTOR TRANSISTOR	1	
104004	N 18701 00114	10	1		Q4284 Q4285	2SD602A-R	TRANSISTOR	-	
	NJM78L09UA NJM79L09UA	1C 1C				2SD1328	TRANSISTOR	4	
	NJM4580ED	10	2		Q4290	2SB710A-R	TRANSISTOR	1	
	MC14052BF	IG I	1			2SB710A-R	TRANSISTOR	4	
	NJM4580ED	1G	1		Q4345, 46		TRANSISTOR	2	
	MC14053BF	10	1		Q4347	2SD602A-R	TRANSISTOR	1	
	NJM78L09UA	IC	1		Q4348	2SD1328	TRANSISTOR	1	
1C4062	NJM79L09UA	IC	1		Q4350	2SB710A-R	TRANSISTOR	_1	
	NJM4580ED	16	2			2SD1149-R	TRANSISTOR	2	
	MC14052BF	IG	1		Q4383	2SB792-R	TRANSISTOR	1	<u> </u>
	NJM4580ED	10	1			2SD602A-R	TRANSISTOR	1	
	MC14053BF	IG	1		Q4386 Q4461-63	2SB710A-R	TRANSISTOR TRANSISTOR	3	
	NJM2100MD	10	2		Q4461-63 Q4501	2SB710A-R	TRANSISTOR	1	
	T74VHC244F NJM78L05UA	IG IG			Q4501 Q4502	2SD602A-R	TRANSISTOR	<u>'</u>	<u> </u>
	XC62AP3002P	IG	3		Q4503	2SB710A-R	TRANSISTOR	1	
104125-27 104128	AK4503VF	IC .	1			2SD602A-R	TRANSISTOR	3	
104128 104129	NJM4580ED	10	1		04507	2SB710A-R	TRANSISTOR	1	<u></u>
104123 104131	T74VHCT244F	IG	1		04508	2SD602A-R	TRANSISTOR	1	
IG4191	NJM78LO5UA	10	1		Q4509	2SB710A-R	TRANSISTOR	1	
	MC74HC541AF	1G	1		Q4510-13	2SD602A-R	TRANSISTOR	_4	4
	AK4320VM	10	1		05.45	LINIO 1 C	TDANSIETOD DEGLOTOD		1
IC4194, 95	NJM4580ED	IC	2		QR4191	UN2213	TRANSISTOR-RESISTOR	1	1
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L		<u> </u>				1	<u> </u>		<u> </u>

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Ref. No.	Part No.	Part Name & Description	cs Remarks	Ref. No.	Part No.	Part Name & Descriptio	nPc	s Remarks
QR4341, 42		TRANSISTOR-RESISTOR	2	R4168-70	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K		3
QR4381, 82		TRANSISTOR-RESISTOR	2	R4191	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	-	1
4117501, 02	- OHEZ 10	TIGHOTOTOR REGIOTOR			ERJ6GEYF473	M. RESISTOR CH 1/10W 47K		2
						<del></del>	-	4
R4001	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	R4194	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	-	1
R4002	ERJ6GEY6102	M. RESISTOR CH 1/10W 1K	1	R4195-97	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	:	3
R4003	ERJ6GEY6103	M. RESISTOR GH 1/10W 10K	1	R4198	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	Π.	1
R4004	ERJ12YJ621	M. RESISTOR CH 1/2W 620	1	R4199-01	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1 :	3
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R4203	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	-	
R4005				· · · · · · · · · · · · · · · · · · ·				<u> </u>
R4006	VRE0034E223	M. RESISTOR CH 1/10W 22K	1	R4204, 05		M. RESISTOR CH 1/10W 22K	2	
R4007	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R4206, 07	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	2
R4008, 09	VRE0034E473	M. RESISTOR CH 1/10W 47K	2	R4210, 11	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	7	2
R4010, 11	VRE0034E123	M. RESISTOR CH 1/10W 12K	2	R4213	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	7	i I
R4016		M. RESISTOR CH 1/10W 32	1		ERJ6GEYG103 '	M. RESISTOR CH 1/10W 10K	1	2
		<del></del>	1			M. RESISTOR CH 1/10W 22K	1-	1
R4017	VRE0034E333	M. RESISTOR CH 1/10W 33K		R4217	ERJ6GEYG223		-	
R4018	ERJ6GEYJ335	M. RESISTOR CH 1/10W 3.3M	1	R4219	ERJ6GEY6103	M. RESISTOR CH 1/10W 10K		1
R4019	VRE0034E332	M. RESISTOR CH 1/10W 3.3K	1	R4221	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K		1
R4020	ERJ6GEYJ335	M. RESISTOR CH 1/10W 3.3M	1	R4222	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	<b>!</b>
R4021	VRE0034E332	M. RESISTOR CH 1/10W 3.3K	1	R4223	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R4022	VRE0034E32B	M. RESISTOR CH 1/10W 32	1	R4224	VRE0034E301	M. RESISTOR CH 1/10W 300	1	1
			<u></u>				+-;	
R4023	VRE0034E333	M. RESISTOR CH 1/10W 33K		R4225	VRE0034E272	M. RESISTOR CH 1/10W 2.7K	1-	
R4029, 30	VRE0034E472	M. RESISTOR CH 1/10W 4.7K	2	R4226	VRE0034E472	M. RESISTOR CH 1/10W 4.7K	<u> </u>	1
R4032	VRE0034E472	M. RESISTOR CH 1/10W 4.7K	1	R4227	VRE0034E123	M. RESISTOR CH 1/10W 12K	1	i
R4034	VRE0034E472	M. RESISTOR CH 1/10W 4.7K	1	R4228	VRE0034E102	M. RESISTOR CH 1/10W 1K		
R4036, 37		M. RESISTOR CH 1/10W 47	2	R4229	VRE0034E103	M. RESISTOR CH 1/10W 10K	1	
R4040		M. RESISTOR CH 1/10W 10K	1	R4230	ERJ6GEYG563	M. RESISTOR CH 1/10W 56K	+ 7	
					+		+-	
R4041		M. RESISTOR CH 1/10W 470	1	R4231	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	+-	
R4043		M. RESISTOR CH 1/10W 0	1	R4232	VRE0034E682	M. RESISTOR CH 1/10W 6.8K	$\perp$ 1	<i>i</i>
R4045	ERJ6GEY6103	M. RESISTOR CH 1/10W 10K	1	R4233-36	VRE0034E472	M. RESISTOR CH 1/10W 4.7K	4	4
R4046-55	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	10	R4237, 38	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M	1 2	2
R4061		M. RESISTOR CH 1/10W 5.6K	1	R4239, 40	VRE0034E153	M. RESISTOR CH 1/10W 15K	1 2	2
R4062	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	R4241	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
<u> </u>			1	R4242	VRE0034E153	M. RESISTOR CH 1/10W 15K	+-;	
R4063	-f	M. RESISTOR CH 1/10W 10K			+		+	<u> </u>
R4064	ERJ12YJ621	M. RESISTOR CH 1/2W 620	1	R4243	VRE0034E150	M. RESISTOR CH 1/10W 15	1	
R4065	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R4244	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R4066	VRE0034E223	M. RESISTOR CH 1/10W 22K	1	R4245-48	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	4	4
R4067	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R4249	VRE0034E153	M. RESISTOR CH 1/10W 15K	1	
		M. RESISTOR CH 1/10W 47K	2	R4250-53	ERJ14YJ100	M. RESISTOR CH 1/4W 10	1	
	<del></del>	M. RESISTOR CH 1/10W 12K	2	R4254	VRE0034E150	M. RESISTOR CH 1/10W 15	1	
			1				1 2	;
R4076		M. RESISTOR CH 1/10W 32			ERJ14YJ220	<del> </del>		
R4077		M. RESISTOR CH 1/10W 33K	1		ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R4078		M. RESISTOR CH 1/10W 3.3M	1	R4259	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R4079	VRE0034E332	M. RESISTOR CH 1/10W 3.3K	1	R4260, 61	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	!
R4080	ERJ66EYJ335	M. RESISTOR CH 1/10W 3.3M	1	R4262	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R4081		M. RESISTOR CH 1/10W 3.3K	1	R4263-66	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	4	
R4082		M. RESISTOR CH 1/10W 32	1		ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1 4	
		M. RESISTOR CH 1/10W 33K	1	R4281	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	+ ;	
R4083							+-	
		M. RESISTOR CH 1/10W 4.7K	2	R4282	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1 1	
R4092	VRE0034E472	M. RESISTOR CH 1/10W 4.7K	1	R4283	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R4094	VRE0034E472	M. RESISTOR CH 1/10W 4.7K	1	R4284	VRE0034E301	M. RESISTOR CH 1/10W 300	1	
R4096, 97		M. RESISTOR CH 1/10W 47	2	R4285		M. RESISTOR CH 1/10W 2.7K	1	
R4100		M. RESISTOR CH 1/10W 10K	1	R4286		M. RESISTOR CH 1/10W 4.7K	1	
			1	R4287			<del>  '</del> ;	<del> </del>
R4101		M. RESISTOR CH 1/10W 470	-				+-	<del> </del>
R4103	<del></del>	M. RESISTOR CH 1/10W 0	1	R4288		M. RESISTOR CH 1/10W 1K	╀╹	
R4105		M. RESISTOR CH 1/10W 10K	1	R4289		M. RESISTOR CH 1/10W 10K	1 1	
R4106-15	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	10	R4290		M. RESISTOR CH 1/10W 56K	_ 1	
R4121, 22	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	2	R4291	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
		M. RESISTOR CH 1/10W 10K	2	R4292		M. RESISTOR CH 1/10W 6.8K	1	
		M. RESISTOR CH 1/10W 10K	2	R4293-96		M. RESISTOR CH 1/10W 4.7K	4	
							-	
		M. RESISTOR CH 1/10W 4.7K	4			M. RESISTOR CH 1/10W 1M	2	·
		M. RESISTOR CH 1/10W 10	2	R4299, 00		M. RESISTOR CH 1/10W 15K	2	
R4133-38	VRE0034E103	M. RESISTOR GH 1/10W 10K	6	R4301		M. RESISTOR CH 1/10W 10	1	· ·
R4139-42	VRE0034E471	M. RESISTOR CH 1/10W 470	4	R4302	VRE0034E153	M. RESISTOR CH 1/10W 15K	17	
R4143		M. RESISTOR CH 1/10W 0	1	R4303	VRE0034E150	M. RESISTOR CH 1/10W 15	1	
		M. RESISTOR CH 1/10W 10	2	R4304		M. RESISTOR CH 1/10W 10	1	
		M. RESISTOR CH 1/10W 10K	2			M. RESISTOR CH 1/10W 5.6K	<u>'</u>	<del> </del>
			<del></del>				1	<del>                                     </del>
R4150		M. RESISTOR CH 1/10W 15K	1	R4309		M. RESISTOR CH 1/10W 15K	<del>-</del>	<u> </u>
R4152	<del></del>		1			M. RESISTOR CH 1/4W 10	4	
R4154	VRE0034E103	M. RESISTOR CH 1/10W 10K	1	R4314	VRE0034E150	M. RESISTOR CH 1/10W 15	1	
R4156, 57	VRE0034E103	M. RESISTOR CH 1/10W 10K	2	R4315, 16	ERJ14YJ220	M. RESISTOR CH 1/4W 22	2	
R4160			1	R4317, 18	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	1
R4161			1	R4319		M. RESISTOR CH 1/10W 1K	1	<del>  </del>
R4162			1			M. RESISTOR CH 1/10W 10K	2	<del> </del>
			1	<u></u>	<del></del>		1	
R4164		M. RESISTOR CH 1/10W 10K	1	R4322		M. RESISTOR CH 1/10W 1K	-:	ļ
R4165		M. RESISTOR CH 1/10W 0	1			M. RESISTOR CH 1/10W 10K	4	
R4167	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	R4327-30	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	14	
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Ref. No.	Part No.	Part Name & DescriptionPc	s Remarks	Ref. No.	Part No.	Part Name & Descr		Pcs	Remarks
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K :		R4439	ERJ6GEYOROO	M. RESISTOR CH 1/10W	0	1	
	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K		R4441	ERJ6GEYOROO	M. RESISTOR CH 1/10W	0	1	
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R4442-44	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	3	
	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M		R4445	VRE0034E202	M. RESISTOR CH 1/10W	2K	1	
	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K		R4446	ERJ6GEYG562	M. RESISTOR CH 1/10W	5. 6K	1	
	ERJ6GEYF473			R4447	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1	
	ERJ6GEYG103			R4448	ERJ6GEYG222	M. RESISTOR CH 1/10W	2. 2K	1	
	ERJ6GEY6102	M. RESISTOR CH 1/10W 1K		R4449	ERJ6GEYG332	M. RESISTOR CH 1/10W	3. 3K	1	
	ERJ6GEY6103	M. RESISTOR CH 1/10W 10K	<del></del>	R4450	ERJ6GEYG222	M. RESISTOR CH 1/10W	2, 2K	1	
		M. RESISTOR CH 1/10W 1K		R4451	ERJ6GEYG104	M. RESISTOR CH 1/10W	100K	1	
	ERJ6GEYG102			R4461	VRE0034E822	M. RESISTOR CH 1/10W	8. 2K	1	
	ERJ6GEYG103			R4462	VRE0034E183	M. RESISTOR CH 1/10W	18K	H	
	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K				M. RESISTOR CH 1/10W	270	-	
	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K		R4463	VRE0034E271			- '	
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R4464	VRE0034E472	M. RESISTOR CH 1/10W	4. 7K		
365	ERJ6GEYF561	M. RESISTOR CH 1/10W 560		R4465	VRE0034E392	M. RESISTOR CH 1/10W	3. 9K	1	
366	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K		R4466	ERJ6GEYOROO	M. RESISTOR CH 1/10W	.0	1	
367	ERJ6GEY6103	M. RESISTOR CH 1/10W 10K		R4467	ERJ6GEYG222	M. RESISTOR CH 1/10W	2. 2K	1	
	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K		R4468	ERJ6GEYF123	M. RESISTOR CH 1/10W	12K	1	
	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0		R4470	ERJ6GEYF393	M. RESISTOR CH 1/10W	39K	- 1	
	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0		R4472	ERJ6GEYG470	M. RESISTOR CH 1/10W	. 47	1	
	ERJ6GEYG182	M. RESISTOR CH 1/10W 1.8K		R4473	VRE0034E123	M. RESISTOR CH 1/10W	12K	1	
	ERJ6GEYG102	M. RESISTOR CH 1/10W 1. 6K		R4474	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1	
				R4475	ERJ6GEYG392	M. RESISTOR CH 1/10W	3. 9K	T i	<u> </u>
	ERJ6GEYG182					M. RESISTOR CH 1/10W	47K	+	
377	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K		R4476	ERJ6GEYF473			1	
	ERJ6GEYG223		2	R4477	ERJ6GEYG122	M. RESISTOR CH 1/10W	1, 2K	<u> </u>	
	ERJ6GEYF822			R4478	VRE0034E124	M. RESISTOR CH 1/10W	120K	1	
1384	ERJ6GEYJ100			R4479	ERJ6GEYG101	M. RESISTOR CH 1/10W	100	1	
1385	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K		R4480	ERJ6GEYG104	M. RESISTOR CH 1/10W	100K	1	
4386	ERJ6GEYF561	M. RESISTOR CH 1/10W 560		R4481	VRE0034E272	M. RESISTOR CH 1/10W	2. 7K	1	
1387	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K		R4482-84	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	3	
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R4485	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	1	
1389	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K		R4486	ERJ6GEYG273	M. RESISTOR CH 1/10W	. 27K	1	
	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K			ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	2	
	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K		R4489	ERJ6GEYOROO	M. RESISTOR CH 1/10W	0	1	
				ł	ERJ6GEYOROO	M. RESISTOR CH 1/10W	0	2	
	ERJ6GEYF473	DE TELEVIOLOTIC ON 17 TON 1711	<u> </u>	l	ļ	M. RESISTOR CH 1/10W	18K	1	
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R4493	VRE0034E183			1	<u> </u>
	ERJ6GEYF472			R4494	VRE0034E682	M. RESISTOR CH 1/10W	6. 8K		
1397	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	<u> </u>	R4495	VRE0034E822	M. RESISTOR CH 1/10W	8. 2K	1	
4398	ERJ6GEYG221	M. RESISTOR CH 1/10W 220		R4501	ERJ6GEYG563	M. RESISTOR CH 1/10W	56K	1	
4399	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K		R4502	ERJ6GEYG332	M. RESISTOR CH 1/10W	3. 3K	1	
4400	ERJ6GEYG470	M. RESISTOR CH 1/10W 47		R4503, 04	ERJ6GEYG563	M. RESISTOR CH 1/10W	56K	2	
4401	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K		R4505	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	1	
4402	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K		R4506	ERJ6GEYG102	M. RESISTOR CH 1/10W	1K	1	
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R4507	ERJ6GEYG563	M. RESISTOR CH 1/10W	56K	1	
	ERJ6GEYG821	M. RESISTOR CH 1/10W 820		R4508	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	$\Box$ 1	
	ERJ6GEYF124	M. RESISTOR CH 1/10W 120K		R4509	ERJ6GEYF333	M. RESISTOR CH 1/10W	33K	$\Box$ 1	
	ERJ6GEYOROO			R4510	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	1	
	ERJ6GEYG222	M. RESISTOR CH 1/10W 2. 2K	<del></del>	R4511	ERJ6GEYF123	M. RESISTOR CH 1/10W	12K	1	
	ERJ6GEYG392	L		R4512	ERJ6GEYG470	M. RESISTOR CH 1/10W	47		
	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0		R4513	ERJ6GEYG101	M. RESISTOR CH 1/10W	100	1	
	ERJ6GEYF393			R4514	ERJ6GEYG152	M. RESISTOR CH 1/10W		1	
				R4515	ERJ6GEYG220	M. RESISTOR CH 1/10W	22	1	l
	ERJ6GEYF333			R4515 R4516, 17	ERJ6GEYG563	M. RESISTOR CH 1/10W	56K	2	<del></del>
	ERJ6GEYF472			1 1		M. RESISTOR CH 1/10W		1	
	VRE0034E122	M. RESISTOR CH 1/10W 1.2K		R4518	ERJ66EYG332			1	
	ERJ6GEYG101			R4519	ERJ6GEYG563	M. RESISTOR CH 1/10W	56K	-	
	VRE0034E823	M. RESISTOR CH 1/10W 82K		R4520	ERJ6GEYG332	M. RESISTOR CH 1/10W		1	
416	ERJ6GEYG392	M. RESISTOR CH 1/10W 3, 9K		R4521	ERJ6GEYG563	M. RESISTOR CH 1/10W	56K	1	<u> </u>
417	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R4522, 23	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	2	
	ERJ6GEYG101	M. RESISTOR CH 1/10W 100		R4524	ERJ6GEYJ471	M. RESISTOR CH 1/10W	470	1	
	ERJ6GEYOROO			R4525, 26	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	2	
	ERJ6GEYG101			R4527	ERJ6GEYJ471	M. RESISTOR CH 1/10W	470	1	
	VRE0034E152			R4528	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	1	
	ERJ6GEYG103			R4529	ERJ6GEYG180	M. RESISTOR CH 1/10W	18	1	
	ERJ6GEYF822			R4530, 31	ERJ6GEYJ471	M. RESISTOR CH 1/10W	470	2	
1424	ERJ6GEYG182	M. RESISTOR CH 1/10W 1.8K		R4532	ERJ6GEYK1RO	M. RESISTOR CH 1/10W	1	-	<u> </u>
				R4533	ERJ6GEYG180	M. RESISTOR CH 1/10W	18		
	VRE0034E392			R4534	ERJ6GEYK1RO	M. RESISTOR CH 1/10W	1		
427	VRE0034E122	M. RESISTOR CH 1/10W 1.2K		l			12K	1	
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R4535	ERJ6GEYF123	M. RESISTOR CH 1/10W		2	
1429	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	<u> </u>		ERJ6GEYG103	M. RESISTOR CH 1/10W	10K		
4431	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		1	ERJ6GEYOROO	M. RESISTOR CH 1/10W	0		
4433	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0		R4555-62	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	8	
4434	VRE0034E433	M. RESISTOR CH 1/10W 43K		<b> </b>				L_	
1435	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K		SW4001	VSS0126	SWITCH		1	
4436	ERJ6GEYG103		1	SW4061	VSS0126	SWITCH		1	<del></del>
	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	SW4381	VSS0367-04B	SWITCH		1	
4437									

VEP84293B / VEP85048A

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<u> </u>	293B / VE	00040A	<del></del>		
Ref. No.	Part No.	Part Name & Description	cs Remarks	Ref. No.	Part No. Part Name & DescriptionPcs Remarks
SW4382	VSS0342	SWITCH	1	G5254	ECUM1H152KBN C. CAPACITOR CH 50V 1500P 1
OITTOOL	1000012	0111011		C5256	ECUM1H152KBN C. CAPACITOR CH 50V 1500P 1
	10.70000	TRANSCORIED	1		EGUM1H104ZFN C. CAPACITOR CH 50V 0. 1U 5
T4501	VLT0866	TRANSFORMER	!		
T4502	VLT0868	TRANSFORMER	1	C5266	ECUM1H104ZFN C. CAPACITOR CH 50V 0.1U 1
T4503, 04	VLT0867	TRANSFORMER	2		ECUMNH104ZFN C. CAPACITOR CH 50V 0.1U 3
				G5405-11	ECUMIHIO4ZFN C. CAPACITOR CH 50V 0.1U 7
TG4121, 22	V.JR0646	TEST POINT	2	G5413-16	ECUM1H104ZFN C. CAPACITOR CH 50V 0.1U 4
		TEST POINT	2		ECUM1H104ZFN G. CAPAGITOR CH 50V 0.1U 2
TG4191, 92					
TG4461	VJR0646	TEST POINT	1	05420	
TG4501	VJR0646	TEST POINT	1	G5423-32	ECUMINIOAZEN C. GAPACITOR CH 50V 0.1U 10
				G5433	ECUM1H152KBN C. CAPACITOR CH 50V 1500P 1
TP4121-26	V.IR0646	TEST POINT	6	G5434	ECUM1H104ZFN C. CAPACITOR CH 50V O. 1U 1
		TEST POINT	3	C5435	ECUM1H821JCN C. CAPACITOR CH 50V 820P 1
TP4191-93					EGUM1H104ZFN C. CAPACITOR CH 50V 0.1U 1
TP4221	VJR0646	TEST POINT	1	C5436	
TP4281	VJR0646	TEST POINT .	1	G5437	ECUMICIO4KBN C. CAPACITOR CH 16V 0.1U 1
TP4381-83	VJR0646	TEST POINT	3	G5439-41	ECUMIHIO4ZFN C. GAPAGITOR CH 50V O. 1U 3
TP4501, 02	V.IR0646	TEST POINT	2	G5442	ECUMIH680JCN C. CAPACITOR CH 50V 68P 1
11 1001, 02				C5443-52	ECUMIHIO4ZFN C. CAPACITOR CH 50V O. 1U 10
	1771/200 17400	V DECLETED 10V			ECUM1H152KBN C. CAPACITOR CH 50V 1500P 2
VR4002		V. RESISTOR 10K	1		
VR4062	VRV0064B103	V. RESISTOR 10K	1	G5455	EGUM1H104ZFN G. GAPAGITOR CH 50V 0.1U 1
VR4221	VRV0064B103	V. RESISTOR 10K	1	C5456, 57	ECUM1H152KBN C. CAPACITOR CH 50V 1500P 2
VR4281	VRV0064B103	V. RESISTOR 10K	1	C5460-64	ECUMIHIO4ZFN C. CAPACITOR CH 50V 0.1U 5
VR4341	VRV0064B103	V. RESISTOR 10K	1	C5466	ECUMINIO4ZFN C. CAPACITOR CH 50V 0. 1U 1
			1		ECUMINIO4ZEN C. GAPACITOR CH 50V 0.1U 4
VR4381	VRV0064B103	V. RESISTOR 10K			
VR4382	VRV0064B503	V. RESISTOR 50K	11	C5605	EGUMIHO4OGGN G. GAPAGITOR GH 50V 4P 1
VR4383	VRV0064B502	V. RESISTOR 5K	1	C5606-09	EGUM1H104ZFN G. GAPAGITOR CH 50V O. 1U 4
VR4384		V. RESISTOR 10K	1	C5611	ECUMIHIO4ZFN C. CAPACITOR CH 50V 0.1U 1
VR4385		V. RESISTOR 20K	1		ECUMIHIO4ZFN C. CAPACITOR CH 50V 0.1U 2
					EGUM1H104ZFN C: CAPACITOR CH 50V 0.1U 4
VR4501	VRV0064B104	V. RESISTOR 100K	1		
	ł			G5625	
		MISCELLANEOUS	ľ	G5627	ECUM1H1O4ZFN C. CAPACITOR CH 50V 0.1U 1
				G5630	ECUM1H104ZFN C. CAPACITOR CH 50V 0.1U 1
	VML2143	CARD PULLER	1	C5631	ECUM1H270JCN C. CAPACITOR CH 50V 27P 1
					ECUMINIO4ZFN C. CAPACITOR CH 50V 0.1U 4
	VML2144	CARD PULLER			
	Y			G5638	ECUM1H104ZFN C. CAPACITOR CH 50V 0.1U 1
				C5643	ECUM1HTO4ZFN C. CAPACITOR CH 50V O. 1U 1
	VEP85048A	H3 EQ C. B. A.	1 (RTL)	C5701-05	ECUMIHIO4ZFN C. CAPACITOR CH 50V 0.1U 5
	<del>                                     </del>			C5710, 11	ECUM1H104ZFN C. CAPACITOR CH 50V 0. 1U 2
	<del> </del>				ECUM1H104ZFN C. CAPACITOR CH 50V 0.1U 2
		0.010101700.011.501			EGUMINIO4ZEN C. CAPACITOR CH 50V 0.1U 2
		C. CAPACITOR CH 50V 0.1U	4		
C5005, 06	ECUM1C105ZFN	G. CAPACITOR CH 16V 1U	2		ECUM1H104ZFN C. CAPACITOR CH 50V 0. 1U 4
C5008, 09	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	G5811-13	ECUM1H104ZFN C. CAPACITOR CH 50V 0.1U 3
C5011, 12	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	C5818	ECUMIHIOODCN C. CAPACITOR CH 50V 10P 1
C5013	ECUM1C105ZEN	C. CAPACITOR CH 16V 1U	1	C5819, 20	ECUMINIO4ZEN C. CAPACITOR CH 50V 0.1U 2
		G. GAPAGITOR CH 50V 0.1U	2	C5822	EGUM1H104ZFN G. GAPAGITOR CH 50V 0.1U 1
			2		
C5018, 19	EGUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	2	C5904	ECUM1H104ZFN C. CAPACITOR CH 50V 0.1U 1
C5020	EGUM1H102JCN	G. GAPACITOR CH 50V 1000P	1	C5909	ECUMINIOAZEN C. CAPACITOR CH 50V 0. 1U 1
G5021-29	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	9	G5912	ECEVOJV3300 E. CAPACITOR CH6. 3V 33U 1
		G. CAPACITOR CH 50V 0.1U	4	G5913	ECUM1H104ZFN G. GAPAGITOR CH 50V O. 1U 1
C5105		C. CAPACITOR CH 16V 1U	1	C5951	ECUMIHIO4ZFN C. CAPACITOR CH 50V 0.1U 1
				C5952	EGEVICV470Q E. CAPACITOR CH 16V 47U 1
G5107		C. CAPACITOR CH 16V 1U	1		<u> </u>
		G. CAPACITOR CH 50V 0.1U	2	C5953	ECUM1H104ZFN C. CAPACITOR CH 50V 0.1U 1
C5111-16	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	6	C5954	EGEV1CV2200 E. CAPACITOR CH 16V 22U 1
C5117	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	C5955-57	ECUMINIOAZEN C. CAPACITOR CH 50V 0.1U 3
		C. CAPACITOR CH 50V 0.1U	8	C5958	EGEVOJV470Q E. CAPACITOR CH6. 3V 47U 1
			2		ECUM1H104ZFN C. CAPACITOR CH 50V 0. 1U 2
		C. CAPACITOR CH 50V 1200P		***************************************	
C5128		C. CAPACITOR CH 50V 1000P	1	C5961	ECEVICV2200 E. CAPACITOR CH 16V 22U 1
C5129-37	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	9	C5962, 63	ECUM1H104ZFN C. CAPACITOR CH 50V 0.1U 2
		C. CAPACITOR CH 50V 0. 1U	10	C5964	ECEVOUVATOR E. CAPACITOR CH6. 3V 47U 1
		C. CAPACITOR CH 50V 0. 1U	3	C5965. 66	EGUM1H104ZFN C. CAPACITOR CH 50V 0. 1U 2
		C. CAPACITOR CH 50V 0.1U	3	C5967	ECEVOJV470Q E. CAPACITOR CH6. 3V 47U 1
			<u>-</u>		EGUM1H104ZFN C. CAPACITOR CH 50V 0.1U 2
C5220		C. CAPACITOR CH 16V 1U	1		
C5223-30	ECUM1H104ZFN	G. CAPACITOR CH 50V 0.1U	8	C5970	EGEV1GV470Q E. CAPACITOR CH 16V 47U 1
C5231	ECUM1H152KBN	C. CAPACITOR CH 50V 1500P	1	C5971, 72	ECUMINIOAZEN C. CAPACITOR CH SOV 0. 1U 2
		G. CAPACITOR CH 50V 0.1U	2	C5973	ECEVOJV470Q E. CAPACITOR CH6. 3V 47U 1
C5234		C. CAPACITOR CH 50V 820P	1	C5974	ECUMINIO4ZFN G. CAPACITOR CH 50V O. 1U 1
				C5975	ECEA1AGE471 E. CAPACITOR 10V 470U 1
		C. CAPACITOR CH 50V 0. 1U	-:		
C5235	IECUM1C104KBN	C. CAPACITOR CH 16V 0.1U	1	C5976	EGEV1GV470Q E. CAPAGITOR CH 16V 47U 1
C5235 C5236		C. CAPACITOR CH 50V 0.1U	3	C5977, 78	ECUM1H104ZFN C. CAPACITOR CH 50V 0.1U 2
				C5979	ECEVICV2200 E. CAPACITOR CH 16V 22U 1
C5236 C5238-40	ECUM1H104ZFN		1] . [	1 00010	
C5236 C5238-40 C5241	ECUM1H104ZFN ECUM1H680JCN	C. CAPACITOR CH 50V 68P			
C5236 C5238-40 C5241 C5242-47	ECUM1H104ZFN ECUM1H680JCN ECUM1H104ZFN	C. CAPACITOR CH 50V 68P C. CAPACITOR CH 50V 0.1U	6	C5980	ECEVICV470Q E. CAPACITOR CH 16V 47U 1
C5236 C5238-40 C5241 C5242-47 C5249, 50	ECUM1H104ZFN ECUM1H680JCN ECUM1H104ZFN ECUM1H104ZFN	C. CAPACITOR CH 50V 68P C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U	6 2	C5980 C5981-83	ECEV1CV470Q E. CAPACITOR CH 16V 47U 1 ECUM1H104ZFN C. CAPACITOR CH 50V 0.1U 3
G5236 G5238-40 G5241 G5242-47	ECUM1H104ZFN ECUM1H680JCN ECUM1H104ZFN ECUM1H104ZFN ECUM1H152KBN	C. CAPACITOR CH 50V 68P C. GAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 1500P	6 2 2 2	C5980 C5981-83 C5984	ECEV1CV470Q   E. CAPACITOR CH 16V   47U   1
G5236 G5238-40 G5241 G5242-47 G5249, 50	ECUM1H104ZFN ECUM1H680JCN ECUM1H104ZFN ECUM1H104ZFN ECUM1H152KBN	C. CAPACITOR CH 50V 68P C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U	6 2	C5980 C5981-83	ECEV1CV470Q E. CAPACITOR CH 16V 47U 1 ECUM1H104ZFN C. CAPACITOR CH 50V 0.1U 3
C5236 C5238-40 C5241 C5242-47 C5249, 50 C5251, 52	ECUM1H104ZFN ECUM1H680JCN ECUM1H104ZFN ECUM1H104ZFN ECUM1H152KBN	C. CAPACITOR CH 50V 68P C. GAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 1500P	6 2 2 2	C5980 C5981-83 C5984	ECEV1CV470Q   E. CAPACITOR CH 16V   47U   1
G5236 G5238-40 G5241 G5242-47 G5249, 50 G5251, 52	ECUM1H104ZFN ECUM1H680JCN ECUM1H104ZFN ECUM1H104ZFN ECUM1H152KBN	C. CAPACITOR CH 50V 68P C. GAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 1500P	6 2 2 2	C5980 C5981-83 C5984	ECEV1CV470Q   E. CAPACITOR CH 16V   47U   1

VEP85048A

VEPOOL	10/1	1	-		_				T
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks Ref. No	э.	Part No.	Part Name & Description	Pcs	s Remarks
C5986	ECEV1CV470Q	E. GAPACITOR CH 16V 47U	1	Q5004-1	2	2SC2295-B	TRANSISTOR	g	·1
C5987, 88	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	2	Q5101		XN5531	TRANSISTOR	1	
C5989		E. CAPACITOR CH 25V 10U	1	Q5102		2SC2295-B	TRANSISTOR	1	
C5990		C. CAPACITOR CH 50V 0. 1U	1	Q5103		XN5531	TRANSISTOR		
			1	Q5104-1		2SC2295-B	TRANSISTOR	١,	
C5991			<u> </u>	05202.0	1	2SG2295-B	TRANSISTOR	-	
C5992		C. CAPACITOR CH 50V 0. 1U			_				
C5995, 96	ECEA1CGE470	E. CAPACITOR 16V 47U	2	Q5204	_	2SA1022~B	TRANSISTOR	_1	
į		•		05401-0		2SC2295-B	TRANSISTOR	3	
D5001	MA3020	DIODE	1	Q5404	.	2SA1022-B	TRANSISTOR	1	
D5101	MA3020	DIODE	1	Q5601, 0	2	2SC2295-B	TRANSISTOR	2	
D5201	MA3036-H	DIODE	1	Q5603		XN5531	TRANSISTOR	1	
D5401	MA3036-H	DIODE	1	Q5606-0	8	2SC2295-B	TRANSISTOR	3	
D5402	MA3030-H	DIODE	1		-			_	
		DIODE	<u></u>	QR5101	٦,	UN2213	TRANSISTOR-RESISTOR	-1	
D5403			-						
D5901		DIODE	_1	QR5401,	02	UN2213	TRANSISTOR-RESISTOR	_ 2	
D5951-62	MA701A	DIODE	12		_				
				R5004			M. RESISTOR CH 1/10W 100	1	
FL5951-55	VLF1016A470	FILTER	5	R5006		ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
				R5007		ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	
I C5001	AN3730FA	10	1	R5008-1	1	ERJ6GEYG470	M. RESISTOR CH. 1/10W 47	4	,
IG5101	M52055FP	10	1	R5012			M. RESISTOR CH 1/10W 2.2K	1	<u> </u>
1G5102	AN3730FA	1G	- <u>-</u>				M. RESISTOR CH 1/10W 47	2	
105102	TC7S32F	1G	<u></u> 1	R5015	_		M. RESISTOR CH 1/10W 220	1	
<del></del>								i	
105202	MC14053BF	10		R5016	_				·}
1C5203	NJM319M	10	1	R5018	_		M. RESISTOR CH 1/10W 47	_ 1	I
1G5204	NJM082BM	IC	1	R5019	-		M. RESISTOR CH 1/10W 390	1	
1 C5205	TG7SH32F	IC	1	R5020-2	$\rightarrow$		M. RESISTOR CH 1/10W 47	3	
105206	NJM084M	IC	1	R5023	T	ERJ6GEYG391	M. RESISTOR CH 1/10W 390	1	
1C5207	AN3740FAP	TC	1	R5025		ERJ6GEYG121	M. RESISTOR CH 1/10W 120	=	
105208	MC74HC4066F	IC	1	R5026, 2	7	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	2	
105209	NJM082BM	IG	1	R5028	-		M. RESISTOR CH 1/10W 47	1	
105209 105401	NJM082BM	IC	1	R5029	-		M. RESISTOR CH 1/10W 120	-1	
					$\rightarrow$			1	
1G5402	TC7WO8F	IC	1	R5030	-+		M. RESISTOR CH 1/10W 47		
	T07832F	IC	1	R5031	-		M. RESISTOR CH 1/10W 180	_1	
105404	MC14053BF	iC	1	R5032			M. RESISTOR CH 1/10W 1.5K	1	
1G5405	NJM082BM	IC	1	R5033	I	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	_1	l
105406	NJM084M	IC	1	R5034	Ţ	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
1C5407	NJM319M	IC	1	R5035, 3	6	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
105408	AN3740FAP	IG	1	R5037	7	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
	MG74HC4066F	1C	1	R5038			M. RESISTOR CH 1/10W 47	1	<u> </u>
	NJM082BM	1C	1	R5039	-		M. RESISTOR CH 1/10W 2.2K	1	<u> </u>
	T74LGX244F	1G	1	R5040	$\rightarrow$		M. RESISTOR CH 1/10W 47	<del></del>	
105411								<u></u>	<b>_</b>
I C5601	UPC1663G	IC	1	R5041			M. RESISTOR CH 1/10W 1K		
	NJM084M	10	1	R5042			M. RESISTOR CH 1/10W 47	_!	
105603	CXD2302Q	IC	_1	R5043	!		M. RESISTOR CH 1/10W 4.7K	_1	
I C5701	MB88344PFV	IC	1	R5044	- 1	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
IC5702	NJM084M	IC	1	R5045	-	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	1	
105703	NJM082BM	IC	1	R5046, 4	7 1	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2	
105801, 02		IC	2	R5048	_ <u> </u> i	FRJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
		IG	<del>-</del>	R5049	_		M. RESISTOR CH 1/10W 0	1	
	74F151ASJ	10	- <u>†</u>	R5050	_		M. RESISTOR CH 1/10W 1.2K		
								1	,
	74F157ASJ	1G	1	R5051	-		M. RESISTOR CH 1/10W 2, 2K	!	
	MC10H124M	1G	1	R5052	_		M. RESISTOR CH 1/10W 0	<u> </u>	
	TC7S32F	IC	1	R5053	_		M. RESISTOR CH 1/10W 2.2K	1	, · ·
		IC	_1	R5054			M. RESISTOR CH 1/10W 47	_1	
1C5902	TC7WO8F	IC	_1	R5101, 0			M. RESISTOR CH 1/10W 0	2	
105903	S80727ANDQ	IC	1	R5103	Ī	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	Ĩ	
IC5904	T74LCX244F	16	1	R5104, 0	5   E	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2	
		IC	4	R5106	1	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
IC5955, 56		IG	2	R5107	$\rightarrow$		M. RESISTOR CH 1/10W 220	1	
1C5957, 58		1G	2	R5108-1	_		M. RESISTOR CH 1/10W 47	4	
			1	R5112	-4-		M. RESISTOR CH 1/10W 220	1	
105959	NJM78L09UA	10	- 1						
			_	R5114, 18	_		M. RESISTOR CH 1/10W 47	2	
		COIL 10UH	1	R5116	_		M. RESISTOR CH 1/10W 2.2K	1	
		COIL 8. 2UH	1	R5117	-		M. RESISTOR CH 1/10W 47	1	
L5802		COIL 2. 7UH	1	R5118	-		M. RESISTOR CH 1/10W- 2.2K	_1	
L5951-53	VLP0133	COIL	3	R5119	_][	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
				R5120	T	ERJ6GEYG391	M. RESISTOR CH 1/10W 390	1	
P5951	VJP3454B096	CONNECTOR (MALE)	Ť	R5121	-		M. RESISTOR CH 1/10W 47	1	
		CONNECTOR (MALE) 4P	1	R5122			M. RESISTOR CH 1/10W 390	1	
		CONNECTOR (MALE) 4P	1	R5124			M. RESISTOR CH 1/10W 0	1	
P5953	VJP1231T	COMMEDIUM (MALE) 4P	_!;		_				
				R5125	-		M. RESISTOR CH 1/10W 2.2K	1	
		TRANSISTOR	1	R5126			M. RESISTOR CH 1/10W 120	1	
		TRANSISTOR	_1	R5127			M. RESISTOR CH 1/10W 2.2K	1	
Q5003	XN5531	TRANSISTOR	1.	R5128, 29	) [	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
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VEP85048A

VEPOOL	V <del>1</del> 0/1		T	<u></u>	1	T	_	
Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & Descriptio	nPc:	s Remarks
R5131		M. RESISTOR CH 1/10W 120 1			ERJ6GEYOROO	M. RESISTOR CH 1/10W 0		
R5132		M. RESISTOR CH 1/10W 180 1		R5302, 03	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2	
R5133		M. RESISTOR CH 1/10W 47K 1			ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
R5134	· · · · · · · · · · · · · · · · · · ·	M. RESISTOR CH 1/10W 1.5K 1			ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K		
	<del>- </del>	M. RESISTOR CH 1/10W 47 2		R5413	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	_	
R5135, 36	<del> </del>			R5414	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	_	
R5137							<del></del>	
R5138		M. RESISTOR CH 1/10W 47 1		R5415	ERJ6GEYG273	M. RESISTOR CH 1/10W 27K		
R5139	·	M. RESISTOR GH 1/10W 2.2K 1		R5416	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	_	
R5141	ERJ6GEYG102	M. RESISTOR GH 1/10W 1K 1		R5417	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	-	<u> </u>
R5142	ERJ6GEYF472	M. RESISTOR GH 1/10W 4.7K 1		R5418	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	-	
R5143	ERJ6GEYG470	M. RESISTOR CH 1/10W 47 1		R5419	ERJ6GEYG682	M. REISITOR CH 1/10W 6.8K	1	
R5144	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 1		R5420	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R5145	ERJ6GEYG470	M. RESISTOR CH 1/10W 47 1		R5421	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
R5146		M. RESISTOR CH 1/10W 2.2K 1		R5422	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
		M. RESISTOR CH 1/10W 47 2		R5425	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1 1	
R5149	<u> </u>	M. RESISTOR CH 1/10W 1.2K 1		R5426	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
		M. RESISTOR CH 1/10W 2. 2K 2		R5429	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
R5152		M. RESISTOR CH 1/10W 47 1		R5430	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	+	
				R5431	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	4	
R5206							1	
R5208		M. RESISTOR CH 1/10W 10K 1		R5432	ERJ6GEYG470			
R5210		M. RESISTOR CH 1/10W 2.2K 1		R5433	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R5211		M. RESISTOR CH 1/10W 10K 1		R5434	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
R5212		M. RESISTOR CH 1/10W 27K 1		R5435	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	1
R5214		M. RESISTOR CH 1/10W 2.2K 1		R5436	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R5215	ERJ6GEYG682	M. REISITOR CH 1/10W 6.8K 1		R5437	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0		
R5216	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K 1		R5438, 39	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R5217	<del> </del>	M. RESISTOR CH 1/10W 1K 1		R5440	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
R5218	<del></del>	M. RESISTOR CH 1/10W 2.2K 1		R5441	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
R5219		M. RESISTOR CH 1/10W 10K 1		R5442	ERJ6GEYG103	M. RESISTOR-CH-1/10W-10K	-1	
R5220		M. RESISTOR CH 1/10W 47 1		R5445	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	-	
	<del> </del>	M. RESISTOR CH 1/10W 47 2		R5446	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
				R5447	ERJ6GEYG222	M. RESISTOR CH 1/10W 2. 2K	╁	<u> </u>
R5225							1	<u> </u>
- R5227		M. RESISTOR CH 1/10W 10K 1		R5449	ERJ6GEYG222			
R5229	<del> </del>	M. RESISTOR CH 1/10W 10K 1		R5450	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	_	
R5230	<del></del>	M. RESISTOR CH 1/10W 0 1		R5451	ERJ6GEY6102	M. RESISTOR CH 1/10W 1K		
		M. RESISTOR CH 1/10W 10K 2		R5452		M. RESISTOR CH 1/10W 820		· · · · · · · · · · · · · · · · · · ·
R5233		M. RESISTOR CH 1/10W 0 1		R5453	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R5234	ERJ6GEYG470	M. RESISTOR CH 1/10W 47 1		R5454	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
R5235	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 1		R5455	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
R5238	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0 1	·	R5456	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1	
R5239	ERJ6GEYG470	M. RESISTOR CH 1/10W 47 1		R5457	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
R5240		M. RESISTOR CH 1/10W 2.2K 1		R5458	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	
R5242		M. RESISTOR CH 1/10W 2.2K 1		R5459	ERJ6GEYJ224	M. RESISTOR CH 1/10W 220K	1	
R5242		M. RESISTOR CH 1/10W 0 1		R5461	ERJ6GEYG821	M. RESISTOR CH 1/10W 820	+	
		M. RESISTOR CH 1/10W 1K 1		R5462	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	<del>  '</del>	
R5244	<u> </u>				ERJ6GEYF822	M. RESISTOR CH 1/10W 8. 2K	+ +	
R5245		M. RESISTOR CH 1/10W 820 1		R5463			+-:	
R5246		M. RESISTOR CH 1/10W 4.7K 1		R5464	ERJ6GEYOROO	<u> </u>	1 - 2	
R5247		M. RESISTOR CH 1/10W 47 1		R5465	ERJ6GEYG182	M. RESISTOR CH 1/10W 1.8K	1	
R5248		M. RESISTOR CH 1/10W 0 1		R5468		M. RESISTOR CH 1/10W 3.3K		
R5249		M. RESISTOR CH 1/10W 330 1		R5469	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1-	
R5250	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0 1		R5470	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K		
R5251		M. RESISTOR CH 1/10W 47 1		R5471	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	
R5252		M. RESISTOR CH 1/10W 68 1		R5472	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K	1	
R5253		M. RESISTOR CH 1/10W 220K 1		R5474	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
R5255		M. RESISTOR CH 1/10W 820 1		R5475	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K	1	
R5256	·	M. RESISTOR CH 1/10W 1K 1		R5476	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	† ;	
R5257		M. RESISTOR CH 1/10W 8. 2K 1		R5478	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	,
				R5479	ERJ6GEYOROO	M. RESISTOR CH 1/10W 2.2K	+;	<del> </del>
R5258		M. RESISTOR CH 1/10W 0 1					+-;	
R5259		M. RESISTOR CH 1/10W 1.8K 1		R5480	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	┼-¦	
R5262	<del></del>	M. RESISTOR CH 1/10W 3.3K 1	,	R5483	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R5263		M. RESISTOR CH 1/10W 0 1		R5488	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R5264	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K 1				M. RESISTOR CH 1/10W 47	2	
R5265	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K 1		R5494		M. RESISTOR CH 1/10W 47	1	
R5266	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K 1		R5496	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
R5267		M. RESISTOR CH 1/10W 2.2K 1		R5497	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K	1	
R5269		M. RESISTOR GH 1/10W 3.9K 1				M. REISITOR CH 1/10W 6.8K	1	
R5270		M. RESISTOR CH 1/10W 0 1				M. RESISTOR CH 1/10W 0	1	<del></del>
		M. RESISTOR CH 1/10W 47 1				M. RESISTOR CH 1/10W 33K	1	<u> </u>
R5271						M. RESISTOR CH 1/10W 22K	1 1	·
R5273		M. RESISTOR CH 1/10W 2.2K 1					2	
R5277		M. RESISTOR CH 1/10W 2. 2K 1				M. RESISTOR CH 1/10W 0	2	
R5281		M. RESISTOR CH 1/10W 2.2K 1				M. RESISTOR CH 1/10W 0		
R5283, 84		M. RESISTOR CH 1/10W 47 2		R5601		M. RESISTOR CH 1/10W 4.7K	1	
R5288		M. RESISTOR CH 1/10W 0 1		R5602		M. RESISTOR CH 1/10W 47	1	
R5290		M. RESISTOR CH 1/10W 8.2K 1		R5603		M. RESISTOR CH 1/10W 1.5K	1	
R5291	ERJ6GEYG682	M. REISITOR CH 1/10W 6.8K 1		R5604, 05	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
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Ref. No.	T	P85049A Part Name & Description	cs Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
		M. RESISTOR CH 1/10W 2.2K	1	TG5401	VJR0646	TEST POINT	1	
		M. RESISTOR CH 1/10W 1K	1	TG5801	VJR0646	TEST POINT	1	
		M. RESISTOR CH 1/10W 150	2				Г	
		M. RESISTOR CH 1/10W 1K	1	TP5001, 02	VJR0646	TEST POINT	2	
		M. RESISTOR CH 1/10W 220	2	TP5101, 02		TEST POINT	2	
		M. RESISTOR CH 1/10W 5. 6K	2	TP5201-04		TEST POINT	4	
		M. RESISTOR CH 1/10W 270	1	TP5401-05		TEST POINT	5	
			1	TP5601, 02		TEST POINT	2	
	<u> </u>	M. RESISTOR CH 1/10W 47		TP5801, 02		TEST POINT	2	
		M. RESISTOR CH 1/10W 47	1				-	
R5621		M. RESISTOR CH 1/10W 3.9K	1	TP5901	VJR0646	TEST POINT	1	
R5622		M. RESISTOR CH 1/10W 270	1				Ļ	
R5623	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K	1	VR5210	VRV0109B203	V. RESISTOR 20K	1	
R5624	ERJ6GEYJ820	M. RESISTOR CH 1/10W 82	1	VR5410	VRV0109B203	V. RESISTOR 20K	1	
R5627	ERJ6GEYJ820	M. RESISTOR CH 1/10W 82	11	VR5601	VRV0109B102	V. RESISTOR 1K	[ 1	
		M. RESISTOR CH 1/10W 68	1	VR5801	VRV0113B501	V. RESISTOR 500	1	
R5631		M. RESISTOR CH 1/10W 1.5K	1					
			1	i	l	MISCELLANEOUS	<del>                                     </del>	
R5632						MITODELL/MICOGO	├	·
R5634		M. RESISTOR CH 1/10W 47	.1			OADD DUILED	۱.	
R5635		M. RESISTOR CH 1/10W 1K	1	ļ	VML2143	CARD PULLER	1	
R5639	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		VML2144	GARD PULLER	1	
R5640	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	11					
R5646	ERJ6GEYG182	M. RESISTOR CH 1/10W 1.8K	1		l		L	
		M. RESISTOR CH 1/10W 47	1		VEP85049A	H4 AMP C. B. A.	1	(RTL)
R5650		M. RESISTOR CH 1/10W 75	i					
			1	l <del> </del>			1	
		M. RESISTOR CH 1/10W 47		05000 10	ECEV1CV4700	E. CAPACITOR CH 16V 47U	10	ļ
R5656		M. RESISTOR CH 1/10W 1K.	1				<b>├</b>	
R5659		M. RESISTOR CH 1/10W 1K	1	C5013	ECEVOJV1010	E. CAPACITOR CH6. 3V 100U	1	
R5663	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	C5014	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
R5664	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	C5020, 21	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2. 2U	2	
		M. RESISTOR CH 1/10W 47	1	C5022, 23	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
		M. RESISTOR CH 1/10W 47	1			E. CAPACITOR CH 50V 2. 2U	2	
		M. RESISTOR CH 1/10W 0	2			E. CAPACITOR CH 16V 47U	2	
		M. RESISTOR CH 1/10W 100	3			C. CAPACITOR CH 50V 220P	3	
· · · · · · · · · · · · · · · · · · ·			3		f	C. CAPACITOR CH 25V 0. 1U	8	
					<del></del>		2	
		M. RESISTOR CH 1/10W 2.2K	1					
		M. RESISTOR CH 1/10W 27K	1			C. CAPACITOR CH 25V 0. 1U	40	
R5710	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1			C. CAPACITOR CH 25V 0. 1U	24	<del></del>
R5711	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	G5136		C. CAPACITOR CH 25V 0.1U	1	
	L	M. RESISTOR CH 1/10W 8.2K	1	C5140, 41	ECUM1E104ZFN	C. CAPACITOR CH 25V 0. 1U	2	
		M. RESISTOR CH 1/10W 1K	2	G5202, 03	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
		M. RESISTOR CH 1/10W 3.3K	1			C. CAPACITOR CH 25V 0.1U	2	
		M. RESISTOR CH 1/10W 0	1			C. CAPACITOR CH 25V 0.1U	2	
			1			C. CAPACITOR CH 25V 0. 1U	8	
		M. RESISTOR CH 1/10W 3.3K		C5608		C. CAPACITOR CH 50V 47P	1	
		M. RESISTOR CH 1/10W 0	1				3	<del> </del>
	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	<u>                                   </u>		C. CAPACITOR CH 25V 0. 1U		<del> </del>
	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	C5612		C. CAPACITOR CH 50V 33P	1	
R5737, 38	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	C5613		C. CAPACITOR CH 25V 0.1U	1	
R5801	ERJ6GEYG682	M. REISITOR CH 1/10W 6.8K	1	C5614	ECUM1H473KBN	C. CAPACITOR CH 50V 0. 047U	1	
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	C5615	ECUM1H103KBN	G. CAPACITOR CH 50V 0.01U	1	
	<u> </u>	M. RESISTOR CH 1/10W 0	2	C5617		C. CAPACITOR CH 50V 0. 047U	1	
	ERDS2TO	C. RESISTOR 1/4W 0	1	C5618, 19		G. CAPACITOR CH SOV 0.01U	2	
			3	C5620, 21		C. CAPACITOR CH 25V 0.1U	2	<del></del>
						C. CAPACITOR CH 50V 27P	-	
		M. RESISTOR CH 1/10W 390	8	C5622			!	<del></del>
		M. RESISTOR CH 1/10W 0	4	C5624		C. CAPACITOR CH 50V 56P	1	
R5835	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	C5626		C. CAPACITOR CH 50V 100P	1	
R5837-39	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	3	C5628		C. CAPACITOR CH 50V 120P	1	
		M. RESISTOR CH 1/10W 100	1	C5630, 31	ECUM1E104ZFN	G. CAPAGITOR CH 25V 0.1U	2	
	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	C5632	<del></del>	C. CAPACITOR CH 50V 47P	1	
	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	C5633-36		C. CAPACITOR CH 25V 0.1U	4	
			2	C5637, 38		G. CAPACITOR CH 50V 1000P	2	
<del></del>	ERJ6GEYOROO					C. CAPACITOR CH 25V 0.1U	2	
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	3	C5639, 40				
		M. RESISTOR CH 1/10W 10K	1	C5643-45		C. CAPACITOR CH 25V 0. 1U	3	
R5906		M. RESISTOR CH 1/10W 15K	1			C. CAPACITOR CH 50V 0.01U	2	
R5907, 08	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	C5648-58		C. CAPACITOR CH 25V 0.1U	-	
	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	C5659	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
	<del></del>	M. RESISTOR CH 1/10W 15K	1	C5660		C. CAPACITOR CH 50V 1800P	1	
		M. RESISTOR CH 1/10W 470	1			G. CAPACITOR CH 25V 0.1U	3	
		·	11	C5665		C. CAPACITOR CH 25V. 0. 1U	1	L
	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1				'	<del> </del>
		M. RESISTOR CH 1/10W 47	3	C5670			· ·	
R5917, 18	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2	G5671		C. CAPACITOR CH 50V 33P	1	
				C5700-07		G. CAPACITOR CH 25V 0.1U	8	
SW5801	VSS0367-04B	SWITCH	1	C5708	ECUM1H470JCN	G. CAPACITOR CH 50V 47P	_ 1	
	1			C5709-11	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	3	
TG5101	VJR0646	TEST POINT	1	C5713		C. CAPACITOR CH 25V 0. 1U	1	
40101	VJR0646	TEST POINT	1	C5714		G. CAPACITOR CH 50V 0. 047U	1	
65201		PER COUNT		L			⊢÷	<del> </del>
TG5201	14110070		1	1 1			ŧ	i .

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Ref. No.	749A		1					1
	Part No.	Part Name & Description	Pcs Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C5715		C. CAPACITOR CH 50V 0. 01U	1	Q5611-13	2SG3130	TRANSISTOR	3	
G5717		C. CAPACITOR CH 50V 0. 047U	1.	05614 15	2SK508K512	TRANSISTOR	2	
			2	Q5616-19		TRANSISTOR	4	
		G. GAPACITOR CH 50V 0.01U					-	
C5720, 21		C. CAPACITOR CH 25V 0. 1U	2		2803130	TRANSISTOR		
C5722	ECUM1H27OJCN	C. CAPACITOR CH 50V 27P	1	05700	XN6537	TRANSISTOR	1	
G5724	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	1	Q5701, 02	2SG2295-C	TRANSISTOR	2	
C5726		C. CAPACITOR CH 50V 100P	1	Q5703	XN5531	TRANSISTOR	1	
			1	Q5704	2803130	TRANSISTOR	1	
			- 1				1	
C5730, 31	ECUM1E104ZFN	C. CAPACITOR CH 25V 0. 1U	2	Q5705	XN5531	TRANSISTOR		
C5732	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	Q5706, 07	2SK508K512	TRANSISTOR	2	,
C5733-36	ECUM1E104ZEN	C. CAPACITOR CH 25V 0.1U	4	Q5708	2SG3130	TRANSISTOR	1	
		C. CAPACITOR CH 50V 1000P	2	95709, 10		TRANSISTOR	2	
			2				3	
		G. CAPACITOR CH 25V O. 1U	2	Q5711-13		TRANSISTOR		
G5743-45	ECUM1E104ZFN	C, CAPACITOR CH 25V O. 1U	3	Q5714, 15	2SK508K512	TRANSISTOR	2	
G5746, 47	ECUMIH103KBN	C. CAPACITOR CH 50V 0. 01U	2	Q5716-19	XN5531	TRANSISTOR	4	
		C. CAPACITOR CH 25V O. 1U	11	Q5720	2SG3130	TRANSISTOR	1	
				40120			<u> </u>	
C5759		C. CAPACITOR CH 50V 1000P	1			H DECLOYOR OU 4 (40W 40V	<u> </u>	
C5760	ECUM1H182KBN	C. CAPACITOR CH 50V 1800P	1	R5001	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
				R5003	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
D5001	MA153	DIODE	1	R5010, 11	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
						M. RESISTOR CH 1/10W 10K	2	
D5002	MA152WK	DIODE	-			M. RESISTOR CH 1/10W 10K	1	
				R5015				
FL5002-05	VLF0931	FILTER	4	R5018, 19		M. RESISTOR CH 1/10W 10K	2	
				R5020	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
105001	TL084GNS	IC	1	R5021		M. RESISTOR CH 1/10W 68K	1	
			1			M. RESISTOR CH 1/10W 10K	5	· · · · · · · · · · · · · · · · · · ·
	MC74HC32AF	10	•					
I C5003	MC74HCO4AF	IC	1	R5040		M. RESISTOR CH 1/10W 3. 9K	1	
105004	NJMO82BM	IC	1	R5041, 42	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
1G5005	MC74HC86F	16		R5043	ERJ6GEYG562	M. RESISTOR CH 1/10W 5, 6K	-1	
		IG	2	R5044		M. RESISTOR CH 1/10W 3.9K	1	
							3	
1 G5008	NJM082BM	IC .	1					
1 C5009	MC14053BF	IC	1)	R5049, 50	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
105010	AN7805F	IC	1	R5051	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K	1	
105011	AN7905F	10	1		ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	3	
							Ť	
IG5012	NJMO82BM	1C	1	R5055	ERJ6GEYG562		<u> -</u>	
I C5013	MB88344PFV	1C	1	R5056	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K	_ ]	
IC5014-16	NJMO82BM	1 <b>C</b>	3	R5057	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
105017	MC14053BF	IC	1	R5058	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K	1	
					ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
105018	TL084GNS	1 <b>C</b>	1				-	
105019	NJMO82BM	10	1	R5061	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	
105020	MC10H116L	1C	1	R5062	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K	1	
105021	MC10H102L	1C	1	R5063-65	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	3	
		1G	1			M. RESISTOR CH 1/10W 100	12	
1G5022	MC10131L						1	
I G5051	UPC16636	1 <b>C</b>	1	R5081		M. RESISTOR CH 1/10W 4.7K		
105052	NJM1496M	1C	1	R5082	VRE0034E122	M. RESISTOR CH 1/10W 1.2K	1	
IG5053	NJM082BM	1 <b>C</b>	1	R5083, 84	VRE0034E153	M. RESISTOR CH 1/10W 15K	2	
1G5054	UPC1663G	IC	1	R5085	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
		10	1	R5086		M. RESISTOR CH 1/10W 4.7K	1	
1G5055	NJM1496M	IG					H	
	l			R5087		M. RESISTOR CH 1/10W 1.2K	<u> </u>	
L5600	VLQ0188K1RON	COIL	1	R5088, 89	VRE0034E153	M. RESISTOR CH 1/10W 15K	2	
		COIL	2	R5090	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
	VLQ0188J101	COIL 100UH	2	R5091	VRE0034E223	M. RESISTOR CH 1/10W 22K	1	
						M. RESISTOR CH 1/10W 10K	2	<u> </u>
	<del></del>	COIL 0. 39UH	2		VRE0034E103			
L5700-02	VLQ0188K1RON	COIL	3	R5094	VRE0034E333	M. RESISTOR CH 1/10W 33K	_1	
L5703.04	VLQ0188J101	COIL 100UH	2	R5095	VRE0034E153	M. RESISTOR CH 1/10W 15K	L1	·
		COIL 0. 39UH	2	R5096	VRE0034E223	M. RESISTOR CH 1/10W 22K	1	
		0.03011		R5097, 98	VRE0034E103	M. RESISTOR CH 1/10W 10K	2	
	ł		ı i -				├	<del> </del>
	t							
P5001	VJP3454B096	CONNECTOR (MALE)	1	R5099	VRE0034E333	M. RESISTOR CH 1/10W 33K	1	1.
P5001 P5002	VJP3454B096 VJP1230T	CONNECTOR (MALE) CONNECTOR (MALE) 3P	1 1	R5100	VRE0034E333 VRE0034E153	M. RESISTOR CH 1/10W 15K	1	
P5002	VJP1230T						1—	
P5002 P5003	VJP1230T VJP1230G	CONNECTOR (MALE) 3P CONNECTOR (MALE) 3P	1	R5100 R5111	VRE0034E153 VRE0034E223	M. RESISTOR CH 1/10W 15K	1	<del>                                     </del>
P5002 P5003 P5004	VJP1230T VJP1230G VJP1230T	CONNECTOR (MALE) 3P CONNECTOR (MALE) 3P CONNECTOR (MALE) 3P	1 1 1	R5100 R5111 R5112	VRE0034E153 VRE0034E223 VRE0034E472	M. RESISTOR CH 1/10W 15K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 4. 7K	1	
P5002 P5003	VJP1230T VJP1230G	CONNECTOR (MALE) 3P CONNECTOR (MALE) 3P	1	R5100 R5111 R5112 R5113	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E272	M. RESISTOR CH 1/10W 15K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 2.7K	1 1 1	
P5002 P5003 P5004	VJP1230T VJP1230G VJP1230T	CONNECTOR         (MALE)         3P           CONNECTOR         (MALE)         3P           CONNECTOR         (MALE)         3P           CONNECTOR         (MALE)         3P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R5100 R5111 R5112 R5113 R5114, 15	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E272 VRE0034E103	M. RESISTOR CH 1/10W 15K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 4. 7K M. RESISTOR CH 1/10W 2. 7K M. RESISTOR CH 1/10W 10K	1 1 1 1 2	
P5002 P5003 P5004	VJP1230T VJP1230G VJP1230T	CONNECTOR (MALE) 3P CONNECTOR (MALE) 3P CONNECTOR (MALE) 3P	1 1 1	R5100 R5111 R5112 R5113	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E272	M. RESISTOR CH 1/10W 15K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 2.7K	1 1 1	
P5002 P5003 P5004 P5005	VJP1230T VJP1230B VJP1230T VJP1230G 2SD601A-R	CONNECTOR         (MALE)         3P           CONNECTOR         (MALE)         3P           CONNECTOR         (MALE)         3P           CONNECTOR         (MALE)         3P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R5100 R5111 R5112 R5113 R5114, 15	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E272 VRE0034E103 VRE0034E223	M. RESISTOR CH 1/10W 15K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 4. 7K M. RESISTOR CH 1/10W 2. 7K M. RESISTOR CH 1/10W 10K	1 1 1 1 2	
P5002 P5003 P5004 P5005 Q5001 Q5002	VJP1230T VJP12308 VJP1230T VJP1230G 2SD601A-R 2SB709A-R	CONNECTOR (MALE)         3P           CONNECTOR (MALE)         3P           CONNECTOR (MALE)         3P           CONNECTOR (MALE)         3P           TRANSISTOR         TRANSISTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E272 VRE0034E103 VRE0034E223 VRE0034E472	M. RESISTOR CH 1/10W 15K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 4. 7K M. RESISTOR CH 1/10W 2. 7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 4. 7K	1 1 1 2 1	
P5002 P5003 P5004 P5005 Q5001 Q5002 Q5006, 07	VJP1230T VJP1230B VJP1230T VJP1230G VJP1230G 2SD601A-R 2SB709A-R 2SA1022-G	CONNECTOR (MALE)         3P           CONNECTOR (MALE)         3P           CONNECTOR (MALE)         3P           CONNECTOR (MALE)         3P           TRANSISTOR         TRANSISTOR           TRANSISTOR         TRANSISTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E272 VRE0034E103 VRE0034E223 VRE0034E472 VRE0034E272	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 2.7K	1 1 1 2 1 1	
P5002 P5003 P5004 P5005 Q5001 Q5002 Q5006, 07 Q5008	VJP1230T VJP1230B VJP1230T VJP1230G VJP1230G 2SD601A-R 2SB709A-R 2SA1022-C 2SD601A-R	CONNECTOR (MALE) 3P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E272 VRE0034E103 VRE0034E223 VRE0034E472 VRE0034E272 VRE0034E103	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K	1 1 1 2 1 1 1 2	
P5002 P5003 P5004 P5005 Q5001 Q5002 Q5006, 07	VJP1230T VJP1230B VJP1230T VJP1230G VJP1230G 2SD601A-R 2SB709A-R 2SA1022-G	CONNECTOR (MALE)         3P           CONNECTOR (MALE)         3P           CONNECTOR (MALE)         3P           CONNECTOR (MALE)         3P           TRANSISTOR         TRANSISTOR           TRANSISTOR         TRANSISTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E272 VRE0034E103 VRE0034E223 VRE0034E472 VRE0034E272 VRE0034E103	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 2.7K	1 1 1 2 1 1	
P5002 P5003 P5004 P5005 Q5001 Q5002 Q5006, 07 Q5008 Q5600	VJP1230T VJP1230B VJP1230T VJP1230G 2SD601A-R 2SB709A-R 2SA1022-C 2SD601A-R XN6537	CONNECTOR (MALE) 3P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118 R5119, 20 R5122	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E172 VRE0034E103 VRE0034E223 VRE0034E472 VRE0034E272 VRE0034E103 ERJ6GEY0R00	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K	1 1 1 2 1 1 1 2	
P5002 P5003 P5004 P5005  Q5001 Q5002 Q5006, 07 Q5008 Q5600 Q5601, 02	VJP1230T VJP1230B VJP1230T VJP1230G 2SD601A-R 2SB709A-R 2SA1022-C 2SD601A-R XN6537 2SC2295-C	CONNECTOR (MALE)   3P	1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118 R5119, 20 R5122 R5130-33	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E272 VRE0034E103 VRE0034E223 VRE0034E472 VRE0034E472 VRE0034E103 ERJ6GEY0R00 ERJ6GEY0R00	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 100	1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1	
P5002 P5003 P5004 P5005  Q5001 Q5002 Q5006, 07 Q5008 Q5600 Q5601, 02 Q5603	VJP1230T VJP1230B VJP1230T VJP1230G 2SD601A-R 2SB709A-R 2SA1022-C 2SD601A-R XN6537 2SG2295-C XN5531	CONNECTOR (MALE)   3P	1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118 R5119, 20 R5122 R5130-33 R5140-45	VRE0034E153 VRE0034E223 VRE0034E272 VRE0034E272 VRE0034E272 VRE0034E203 VRE0034E272 VRE0034E272 VRE0034E103 ERJ6GEY0R00 ERJ6GEY0R101 ERJ6GEY0R101	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.X M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 1.0K M. RESISTOR CH 1/10W 1.0K M. RESISTOR CH 1/10W 2.X M. RESISTOR CH 1/10W 2.X M. RESISTOR CH 1/10W 2.X M. RESISTOR CH 1/10W 1.0K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100	1 1 1 1 1 1 1 2 1 1 1 2 4 6	
P5002 P5003 P5004 P5005  Q5001 Q5002 Q5006, 07 Q5008 Q5600 Q5601, 02 Q5603 Q5604	VJP1230T VJP1230B VJP1230T VJP1230G 2SD601A-R 2SB709A-R 2SA1022-G 2SD601A-R XN6537 2SC2295-G XN5531 2SC3130	CONNECTOR (MALE)   3P	1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118 R5119, 20 R5122 R5130-33 R5140-45	VRE0034E153 VRE0034E223 VRE0034E272 VRE0034E272 VRE0034E103 VRE0034E272 VRE0034E272 VRE0034E103 ERJ6GEY0R00 ERJ6GEY0R101 ERJ6GEY0R101 VRE0034E223	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 22K	1 1 1 1 1 1 1 1 1 2 2 1 1 4 6 1 1	
P5002 P5003 P5004 P5005  Q5001 Q5002 Q5006, 07 Q5008 Q5600 Q5601, 02 Q5603	VJP1230T VJP1230B VJP1230T VJP1230G 2SD601A-R 2SB709A-R 2SA1022-C 2SD601A-R XN6537 2SG2295-C XN5531	CONNECTOR (MALE)   3P	1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118 R5119, 20 R5122 R5130-33 R5140-45	VRE0034E153 VRE0034E223 VRE0034E272 VRE0034E103 VRE0034E213 VRE0034E223 VRE0034E103 ERJ66EY0101 ERJ66EY0101 VRE0034E223 VRE0034E203 VRE0034E203 VRE0034E103	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 0.7K M. RESISTOR CH 1/10W 0.7K M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 5.6K	1 1 1 1 1 1 1 1 2 1 1 1 4 6 6	
P5002 P5003 P5004 P5005  Q5001 Q5002 Q5006, 07 Q5008 Q5600 Q5601, 02 Q5603 Q5604 Q5605	VJP1230T VJP1230B VJP1230T VJP1230G 2SD601A-R 2SB709A-R 2SA1022-C 2SD601A-R XM6537 2SC2295-C XM5531 2SC3130 XM5531	CONNECTOR (MALE)   3P	1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118 R5119, 20 R5122 R5130-33 R5140-45	VRE0034E153 VRE0034E223 VRE0034E272 VRE0034E103 VRE0034E213 VRE0034E223 VRE0034E103 ERJ66EY0101 ERJ66EY0101 VRE0034E223 VRE0034E203 VRE0034E203 VRE0034E103	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 22K	1 1 1 1 1 1 1 1 1 2 2 1 1 4 6 1 1	
P5002 P5003 P5004 P5005  Q5001 Q5002 Q5006, 07 Q5008 Q5600 Q5601, 02 Q5603 Q5604 Q5605 Q5606, 07	VJP1230T VJP1230B VJP1230T VJP1230G 2SD601A-R 2SB709A-R 2SA1022-C 2SD601A-R XN6537 2SC2295-C XN5531 2SC3130 XN5531 2SK508K512	CONNECTOR (MALE) 3P	1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118 R5119, 20 R5122 R5130-33 R5140-45 R5146 R5148	VRE0034E153 VRE0034E223 VRE0034E272 VRE0034E103 VRE0034E103 VRE0034E272 VRE0034E103 ERJ66EY0R00 ERJ66EY0R00 ERJ66EY6101 VRE0034E23 VRE0034E23 VRE0034E333	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 3.3K	1 1 1 1 1 1 1 1 2 1 1 1 4 6 6	
P5002 P5003 P5004 P5005  Q5001 Q5002 Q5006, 07 Q5008 Q5600, 02 Q5603 Q5604 Q5605 Q5606, 07 Q5608	VJP1230T VJP1230B VJP1230T VJP1230G 2SD601A-R 2SB709A-R 2SA1022-C 2SD601A-R XN6537 2SC2295-C XN5531 2SC3130 XN5531 2SK508K512 2SC3130	CONNECTOR (MALE) 3P	1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118 R5119, 20 R5122 R5130–33 R5140–45 R5148 R5149	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E172 VRE0034E103 VRE0034E103 VRE0034E223 VRE0034E103 ERJ66EY0101 ERJ66EY6101 VRE0034E223 VRE0034E223 VRE0034E562 VRE0034E503 VRE0034E503 VRE0034E503 VRE0034E503	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 3.3K M. RESISTOR CH 1/10W 3.3K M. RESISTOR CH 1/10W 10K	1 1 1 1 1 1 1 2 1 1 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
P5002 P5003 P5004 P5005  Q5001 Q5002 Q5006, 07 Q5008 Q5600, 02 Q5603 Q5604 Q5605 Q5606, 07 Q5608	VJP1230T VJP1230B VJP1230T VJP1230G 2SD601A-R 2SB709A-R 2SA1022-C 2SD601A-R XN6537 2SC2295-C XN5531 2SC3130 XN5531 2SK508K512	CONNECTOR (MALE) 3P	1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118 R5119, 20 R5122 R5130-33 R5140-45 R5146 R5148	VRE0034E153 VRE0034E223 VRE0034E272 VRE0034E103 VRE0034E103 VRE0034E272 VRE0034E103 ERJ66EY0R00 ERJ66EY0R00 ERJ66EY6101 VRE0034E23 VRE0034E23 VRE0034E333	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 3.3K	1 1 1 1 1 1 1 1 2 1 1 1 4 6 6	
P5002 P5003 P5004 P5005  Q5001 Q5002 Q5006, 07 Q5008 Q5600, 02 Q5603 Q5604 Q5605 Q5606, 07 Q5608	VJP1230T VJP1230B VJP1230T VJP1230G 2SD601A-R 2SB709A-R 2SA1022-C 2SD601A-R XN6537 2SC2295-C XN5531 2SC3130 XN5531 2SK508K512 2SC3130	CONNECTOR (MALE) 3P	1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118 R5119, 20 R5122 R5130–33 R5140–45 R5148 R5149	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E172 VRE0034E103 VRE0034E103 VRE0034E223 VRE0034E103 ERJ66EY0101 ERJ66EY6101 VRE0034E223 VRE0034E223 VRE0034E562 VRE0034E503 VRE0034E503 VRE0034E5103	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 3.3K M. RESISTOR CH 1/10W 3.3K M. RESISTOR CH 1/10W 10K	1 1 1 1 1 1 1 2 1 1 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
P5002 P5003 P5004 P5005  Q5001 Q5002 Q5006, 07 Q5008 Q5600, 02 Q5603 Q5604 Q5605 Q5606, 07 Q5608	VJP1230T VJP1230B VJP1230T VJP1230G 2SD601A-R 2SB709A-R 2SA1022-C 2SD601A-R XN6537 2SC2295-C XN5531 2SC3130 XN5531 2SK508K512 2SC3130	CONNECTOR (MALE) 3P	1	R5100 R5111 R5112 R5113 R5114, 15 R5116 R5117 R5118 R5119, 20 R5122 R5130–33 R5140–45 R5148 R5149	VRE0034E153 VRE0034E223 VRE0034E472 VRE0034E172 VRE0034E103 VRE0034E103 VRE0034E223 VRE0034E103 ERJ66EY0101 ERJ66EY6101 VRE0034E223 VRE0034E223 VRE0034E562 VRE0034E503 VRE0034E503 VRE0034E5103	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/10W 3.3K M. RESISTOR CH 1/10W 3.3K M. RESISTOR CH 1/10W 10K	1 1 1 1 1 1 1 2 1 1 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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Ref. No.	Part No.	Part Name & DescriptionPc	Remarks	Ref. No.	Part No.	Part Name & Description	nPc:	s Remarks
R5153	VRE0034E562	M. RESISTOR CH 1/10W 5.6K	· · · · · · · · · · · · · · · · · · ·	R5691	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	_	
R5154	VRE0034E333	M. RESISTOR CH 1/10W 33K	<del></del>	R5692	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R5155	VRE0034E103	M. RESISTOR CH 1/10W 10K	·	R5693-96	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	17	1
R5156	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R5697	VRE0034E821	M. RESISTOR CH 1/10W 820	1	
R5161	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	,	R5698	VRE0034E102	M. RESISTOR CH 1/10W 1K	17	
	ERJ6GEYG101	M. RESISTOR CH 1/10W 100		R5699-02	ERJ6GEYG560	M. RESISTOR CH 1/10W 56	17	
	ERJ6GEYG101	M. RESISTOR CH 1/10W 100		R5703	VRE0034E822	M. RESISTOR CH 1/10W 8.2K	1	
	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470		R5704	VRE0034E391	M. RESISTOR CH 1/10W 390	1	
	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	F	R5705	VRE0034E332	M. RESISTOR CH 1/10W 3.3K	1	
	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470		R5706, 07	VRE0034E392	M. RESISTOR CH 1/10W 3.9K	1 2	
	ERJ6GEYG101	M. RESISTOR CH 1/10W 100		R5708	VRE0034E153	M. RESISTOR CH 1/10W 15K	1-7	
	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K		R5709	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	13	
	ERJ6GEYG121	M. RESISTOR CH 1/10W 120		R5710	ERJ6GEYG470	M. RESISTOR GH 1/10W 47	H	
	ERJ6GEYJ820	M. RESISTOR CH 1/10W 82 2			ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	-	
R5230	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K		R5717	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	+	
	ERJ6GEYG470	M. RESISTOR CH 1/10W 47 2		R5718	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	+-;	
	VRE0034E470	M. RESISTOR CH 1/10W 47 2		R5719		M. RESISTOR CH 1/10W 1K	+-	
		<u> </u>		R5720	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	H	
R5602	VRE0034E560			L		M. RESISTOR CH 1/10W 47	1 2	
	VRE0034E271	M. RESISTOR CH 1/10W 270 2					1	
R5605	VRE0034E680	M. RESISTOR CH 1/10W 68 1		R5802	VRE0034E560		2	
R5606	VRE0034E222	M. RESISTOR CH 1/10W 2.2K			VRE0034E271		1	
	VRE0034E391	M. RESISTOR CH 1/10W 390 2		R5805	VRE0034E121	M. RESISTOR CH 1/10W 120	<del>                                     </del>	<del> </del>
R5609	VRE0034E222	M. RESISTOR CH 1/10W 2.2K		R5806		M. RESISTOR CH 1/10W 2.2K	-	
	ERJ6GEYG470	M. RESISTOR CH 1/10W 47 2				M. RESISTOR CH 1/10W 390	2	
R5612	ERJ6GEYG330	M. RESISTOR CH 1/10W 33 1		R5809		M. RESISTOR CH 1/10W 2.2K	╀!	
R5613	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7K				M. RESISTOR CH 1/10W 47	2	
R5614	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K		R5812		M. RESISTOR CH 1/10W 33	1	
R5615	ERJ6GEYG470	M. RESISTOR CH 1/10W 47		R5813	<del></del>	M. RESISTOR CH 1/10W 2.7K	1-1	
		M. RESISTOR CH 1/10W 33 2		R5814	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	<u> </u>
	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K 2		R5815	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	<del></del>	I <b>I</b>	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	2	
	ERJ6GEYG330	M. RESISTOR GH 1/10W 33 2			ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	2	
	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K 2		R5820, 21	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
R5626	VRE0034E181	M. RESISTOR CH 1/10W 180 1		R5822, 23	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	2	
R5627	VRE0034E103	M. RESISTOR CH 1/10W 10K 1		R5824, 25	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	2	
R5628	VRE0034E391	M. RESISTOR CH 1/10W 390 1		R5826	VRE0034E181	M. RESISTOR CH 1/10W 180	1	
R5629	VRE0034E181	M. RESISTOR CH 1/10W 180 1		R5827	VRE0034E103	M. RESISTOR CH 1/10W 10K	1	
R5630	VRE0034E103	M. RESISTOR CH 1/10W 10K 1		R5828	VRE0034E391	M. RESISTOR CH 1/10W 390	1	
R5631	ERJ6GEYG221	M. RESISTOR CH 1/10W 220 1		R5829	VRE0034E181	M. RESISTOR CH 1/10W 180	1	
R5632	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K 1		R5830	VRE0034E103	M. RESISTOR CH 1/10W 10K	1	
R5633	ERJ6GEYG470	M. RESISTOR CH 1/10W 47 1		R5831	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	. 1	
R5634	ERJ6GEYG330	M. RESISTOR CH 1/10W 33 1		R5832	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R5635	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7K 1		R5833	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
R5637, 38	ERJ6GEYG470	M. RESISTOR CH 1/10W 47 2		R5834	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R5639, 40	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0 2		R5835	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7K	1	
R5642, 43	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 2		R5836	VRE0034E101	M. RESISTOR CH 1/10W 100	1	
R5644	ERJ6GEYG330	M. RESISTOR CH 1/10W 33 1		R5837	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
R5645	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K 1		R5838	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
		M. RESISTOR CH 1/10W 47 2		R5839, 40	VRE0034E151	M. RESISTOR CH 1/10W 150	2	
		M. RESISTOR CH 1/10W 33 1			<del></del>	M. RESISTOR CH 1/10W 10K	2	
	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K 1		R5844		M. RESISTOR CH 1/10W 33	1	· · · · · · · · · · · · · · · · · · ·
	ERJ6GEYG470	M. RESISTOR CH 1/10W 47 2		R5845		M. RESISTOR CH 1/10W 1K	1	
	ERJ6GEYG330	M. RESISTOR CH 1/10W 33 1				M. RESISTOR CH 1/10W 47	2	
		M. RESISTOR CH 1/10W 1.8K 1		R5848		M. RESISTOR CH 1/10W 33	1	
		M. RESISTOR CH 1/10W 47 2	********	R5849		M. RESISTOR CH 1/10W 1K	1	
		M. RESISTOR CH 1/10W 330 2				M. RESISTOR CH 1/10W 47	2	
		M. RESISTOR CH 1/10W 1K 2		R5852		M. RESISTOR CH 1/10W 33	1	
		M. RESISTOR CH 1/10W 1.5K 1		R5853		M. RESISTOR CH 1/10W 1.8K	1	
R5661		M. RESISTOR CH 1/10W 3.3K 1				M. RESISTOR CH 1/10W 47	1 ;	
		M. RESISTOR CH 1/10W 220 1				M. RESISTOR CH 1/10W 330	2	
		M. RESISTOR CH 1/10W 3.3K 1				M. RESISTOR CH 1/10W 1K	2	
		M. RESISTOR CH 1/10W 1.5K 3				M. RESISTOR CH 1/10W 1.5K	1	
		M. RESISTOR CH 1/10W 47 2		R5861		M. RESISTOR CH 1/10W 3. 3K	1 ;	
		M. RESISTOR CH 1/10W 33 2		R5862		M. RESISTOR CH 1/10W 220	;	
		M. RESISTOR CH 1/10W 2.2K 2		R5863		M. RESISTOR CH 1/10W 3. 3K	1	
		M. RESISTOR CH 1/10W 2.2K 2				M. RESISTOR CH 1/10W 1.5K	3	
						M. RESISTOR CH 1/10W 47	2	
		<u> </u>				M. RESISTOR CH 1/10W 33	2	
							2	
		M. RESISTOR CH 1/10W 2.2K 2						
		M. RESISTOR CH 1/10W 47 2				M. RESISTOR CH 1/10W 47	2	
		M. RESISTOR CH 1/10W 47 2				M. RESISTOR CH 1/10W 33	2	
		M. RESISTOR CH 1/10W 33 2				M. RESISTOR CH 1/10W 390	2	
		M. RESISTOR CH 1/10W 4. 7K 2				M. RESISTOR CH 1/10W 2. 2K	2	
		M. RESISTOR CH 1/10W 33 1				M. RESISTOR CH 1/10W 47	2	
R5690	ERJ6GEYG182	M. RESISTOR CH 1/10W 1.8K 1		R5883, 84	ERJ6GEY6470	M. RESISTOR CH 1/10W 47	2	
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VEP85049A / VEP85151A

	VEPOOL	149A / VE	PB5151A							
	Ref. No.	Part No.	Part Name & Description	, D.	Remarks	Ref. No.	Part No.	Part Name & Description	nPc	s Remarks
			M. RESISTOR CH 1/10W 33	+				C. CAPACITOR CH 25V 0. 1U		3 Remarks
				_				G. CAPACITOR CH 50V 22P	-	1
			M. RESISTOR CH 1/10W 4.7K	-		C5353			-	·
	R5889		M. RESISTOR CH 1/10W 33	1 1		C5354		C. CAPACITOR CH 50V 180P	-	1
	R5890	ERJ6GEYG182	M. RESISTOR CH 1/10W 1.8K	1		C5355		C. CAPACITOR CH 50V 3P	1	`
	R5891	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1		C5356	ECUX1H180JCV	G. CAPACITOR CH 50V 18P	1_	11
	R5892	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1		C5357, 58	ECUX1H080DGV	G. CAPACITOR CH 50V 8P	Т	2
			M. RESISTOR CH 1/10W 1K	4		C5400		G. CAPACITOR CH 50V 120P	+	1
				-				C, CAPACITOR CH 25V 0.1U		5
	R5897	VRE0034E821		<del>  '</del>						2
ĺ	R5898	VRE0034E102	M. RESISTOR CH 1/10W 1K	1			<del> </del>		-	
	R5899-02	ERJ6GEYG560	M. RESISTOR CH 1/10W 56	4		C5413-16		C. CAPACITOR CH 25V O. 1U		4
	R5903	VRE0034E822	M. RESISTOR CH 1/10W 8.2K	1		C5420	EGUX1H121JCV	G. CAPACITOR CH 50V 120P		1
	R5904	VRE0034E391	M. RESISTOR CH 1/10W 390	1		C5421	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	T	1
	R5905	VRE0034E332	M. RESISTOR CH 1/10W 3.3K	1		C5500	ECUX1H121JCV	G. GAPACITOR CH 50V 120P	Т	11
			M. RESISTOR CH 1/10W 3.9K	2				C. CAPACITOR CH 25V 0. 1U	+-	5
						C5506, 07	1	C. CAPACITOR CH 50V 1000P	_	2
	R5908		M. RESISTOR CH 1/10W 15K	1					_	
	R5909		M. RESISTOR CH 1/10W 10K	1		J		C. CAPACITOR CH 25V 0.1U	_	3
	R5910	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1		C5520		C. CAPACITOR CH 50V 120P	-	1
	R5911-14	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	4		C5521	EGUX1H221JCV	C. CAPACITOR CH 50V 220P		1  . <u> </u>
	R5920	ERJ6GEY6470	M. RESISTOR CH 1/10W 47	1		C5600-10	EGUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	1
						C5700-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	1
	RY5001	VSY2069	RELAY	1	i			C. CAPACITOR CH 50V 15P	-	2
	1110001	1012000	(1.E./11	├-	<del> </del>	55001, 02			+-	
				-	ļ	DE 105 55	114 1 50007	DIODE	+-	
	\$\$5008	VJS1990	CONNECTOR (FEMALE)	1		D5400, 01		DIODE	_	2
				L		D5500, 01	MA152WK	D10DE	4	2
	SW5008	VJP2536A003	CONNECTOR (MALE)	1			<u> </u>		$\perp$	<u> </u>
						FL5001-05	VLF1016A470	FILTER	Π.	5
	TG5001-03	V.IR0646	TEST POINT	3				, · · ·	1	
			TEST POINT	5		105003	MG74HG04AF	IC	╁	1
	TG5005-09	4URU040	IESI PUINI	۱				-1 <b>6</b>	+	<u> </u>
						105008, 09			+-	<u> </u>
	TP5001-03	VJR0646	TEST POINT	3	·	1G5010	XC62AP5002P	IC	1	1
	TP5007-12	VJR0646	TEST POINT	6		105011	XC62DN5002P	I C		1
	TP5015-20	VJR0646	TEST POINT	6		1G5014	NJM082BM	10		1}
				<u> </u>		IC5023, 24	MC10H116L	IC		2
	VCESOD 01	ECV1ZW20X53	TRIMMER	1 2		105025, 26		IC	-	2
				2		105027, 28	<del> </del>	16		
	VG5700, 01	ECV1ZW20X53	TRIMMER	1-						
				_		105030-33		10		1
	VR5001-14	VRV0064B502	V. RESISTOR 5K	14		1G5034	XC62DN5002P	1C ·	1	
					i i	105035	TC4S71F	IC	L	
			MISCELLANEOUS	Г		IC5040-43	TC4S30F	IC	Т	1
				$t^-$		1C5045	TG4S71F	IC	T	
		VML2143	GARD PULLER	1		105050	UPG5102GS030	IG	+	
				<del>  '</del>		105060	UPC5102GS030	IC	╁	
		VML2144	CARD PULLER	<u> </u>		100000	UF001020000	10	┿	<b>4</b>
		VSC3626	HEAT SINK (A)	2					╄-	
		XNG26E	NUT	2		L5300, 01	VLQ0163J2R2	COIL 2. 2UH		
		XYN26+F10	SCREW	2		L5350, 51	VLQ0163J2R2	COIL 2. 2UH		2
		************				L5400, 01	VLQ0163J330	COIL 33UH		2
				Ι-		1,5500,01	VLQ0163J330	COIL 33UH		
		VCDOCIETA	DHEEED AND O B A		(RTL)	20000, 01	7240130000		۳	
		VEP85151A	BUFFER AMP C. B. A.	<u> </u>	(KIL)				+	
				<b>L</b>		P5001	VJS3375B060	CONNECTOR (FEMALE)	L	
				<u> </u>		P5002	VJS3900A013	CONNECTOR (FEMALE)	4	
	C5001	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		P5003	VJS3900A010	CONNECTOR (FEMALE)		<u> </u>
	G5002	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1		J				
	C5003	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		Q5200, 01	2SA1022-C	TRANSISTOR		2
	C5004	ECEVICVIOOQ	E. CAPACITOR CH 16V 10U	Hi		Q5300	2SD601A-R	TRANSISTOR	+	
				<del>  '</del>	<del>                                     </del>	Q5301	2SB709A-R	TRANSISTOR	+	·
	C5005	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1					-	
		ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		Q5302, 03	2SC3735B35	TRANS1STOR		
	C5007	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		Q5350	2SD601A-R	TRANSISTOR		
į	C5008	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		Q5351	2SB709A-R	TRANSISTOR		
ł	G5009	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		Q5352, 53	2SC3735B35	TRANSISTOR		2
OTHER		EGEV1CV100Q	E. CAPACITOR CH 16V 10U	l i		Q5400	2SA1022-C	TRANSISTOR	1	· · · · · · · · · · · · · · · · · · ·
				ļ		Q5401-04	<del> </del>	TRANSISTOR	<del>-</del>	
		ECEV1EN4R7Q	E. CAPACITOR CH 25V 4. 7U	4			2SD1979			
İ			E. CAPACITOR CH 16V 10U	2		Q5405, 06	2SC2954	TRANSISTOR		
	C5017-20	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2. 2U	4		Q5407, 08	2SG3130	TRANSISTOR	-	2
1	G5021. 22	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	. 2		Q5409	2SC2954	TRANSISTOR		
			C. CAPACITOR CH 25V 0.1U	11		Q5410, 11	2SA1022-C	TRANSISTOR		?
	05050-60		G. GAPACITOR CH 50V 220P	2		Q5412, 13		TRANSISTOR		
		ECHYTHOOT INV	o. on not tak on out 220P	-					+	
	C5061, 62		A ALBANITOR OU POUR	4		Q5500	2SA1022-C	TRANSISTOR	-	<u> </u>
	C5061, 62 C5063-66	ECUX1H822KBV	G. CAPACITOR CH 50V 8200P	-		Q5501-04	2SD1979	TRANSISTOR		<u> </u>
	C5061, 62 C5063-66	ECUX1H822KBV	C. CAPACITOR CH 50V 8200P C. CAPACITOR CH 25V 0. 1U	4	<u> </u>		00000	TRIAL ATAR		
	C5061, 62 C5063-66 C5100-03	ECUX1H822KBV ECUX1E104ZFV		-		Q5505, 06	2SG2954	TRANSISTOR	1	
	C5061, 62 C5063-66 C5100-03 C5200-03	ECUX1H822KBV ECUX1E104ZFV ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U C. CAPACITOR CH 25V 0.1U	4		Q5505, 06 Q5507, 08		TRANSISTOR	1	
	C5061, 62 C5063-66 C5100-03 C5200-03 C5300-02	EGUX1H822KBV EGUX1E104ZFV EGUX1E104ZFV EGUX1E104ZFV	C. GAPAGITOR CH 25V 0. 1U C. GAPAGITOR CH 25V 0. 1U C. GAPAGITOR CH 25V 0. 1U	4 3		05507, 08	2803130	TRANSISTOR	-	
	C5061, 62 C5063-66 C5100-03 C5200-03 C5300-02 C5303	ECUX1H822KBV EGUX1E104ZFV ECUX1E104ZFV ECUX1E104ZFV ECUX1H220JCV	C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 50V 22P	4 4 3		Q5507, 08 Q5509	2SG3130 2SG2954	TRANSISTOR TRANSISTOR	-	
	G5061, 62 G5063-66 G5100-03 G5200-03 G5300-02 G5303 G5304	EGUX1H822KBV EGUX1E104ZFV EGUX1E104ZFV EGUX1E104ZFV EGUX1H220JGV EGUX1H181JGV	C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 50V 22P C. CAPAGITOR CH 50V 180P	4 3 1		05507, 08 05509 05510, 11	2SG3130 2SG2954 2SA1022-G	TRANSISTOR TRANSISTOR TRANSISTOR	1	
	G5061, 62 G5063-66 G5100-03 G5200-03 G5300-02 G5303 G5304 G5305	ECUX1H822KBV ECUX1E104ZFV ECUX1E104ZFV ECUX1E104ZFV ECUX1H220JCV ECUX1H220JCV ECUX1H030CCV	C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 50V 22P C. CAPAGITOR CH 50V 180P C. CAPAGITOR CH 50V 3P	4 3 1 1		Q5507, 08 Q5509 Q5510, 11 Q5512, 13	2SC3130 2SC2954 2SA1022-C 2SK508-B	TRANSISTOR Transistor Transistor Transistor	1	
	G5061, 62 G5063-66 G5100-03 G5200-03 G5300-02 G5303 G5304 G5305	ECUX1H822KBV ECUX1E104ZFV ECUX1E104ZFV ECUX1E104ZFV ECUX1H220JCV ECUX1H220JCV ECUX1H030CCV	C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 50V 22P C. CAPAGITOR CH 50V 180P	4 3 1		Q5507, 08 Q5509 Q5510, 11 Q5512, 13 Q5600, 01	2SG3130 2SG2954 2SA1022-G 2SK508-B XN5531	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	3	
	C5061, 62 C5063-66 C5100-03 C5200-03 C5300-02 C5303 C5304 C5305 C5306	ECUX1H822KBV ECUX1E104ZFV ECUX1E104ZFV ECUX1E104ZFV ECUX1H220JCV ECUX1H181JCV ECUX1H030CCV ECUX1H180JCV	C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 50V 22P C. CAPAGITOR CH 50V 180P C. CAPAGITOR CH 50V 3P	4 3 1 1		Q5507, 08 Q5509 Q5510, 11 Q5512, 13 Q5600, 01	2SG3130 2SG2954 2SA1022-G 2SK508-B	TRANSISTOR Transistor Transistor Transistor	1	
	C5061, 62 C5063-66 C5100-03 C5200-03 C5300-02 C5303 C5304 C5305 C5306	ECUX1H822KBV ECUX1E104ZFV ECUX1E104ZFV ECUX1E104ZFV ECUX1H220JCV ECUX1H181JCV ECUX1H030CCV ECUX1H180JCV	C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 50V 22P C. CAPAGITOR CH 50V 180P C. CAPAGITOR CH 50V 3P C. CAPAGITOR CH 50V 18P	4 3 1 1 1		Q5507, 08 Q5509 Q5510, 11 Q5512, 13 Q5600, 01	2SG3130 2SG2954 2SA1022-G 2SK508-B XN5531	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	3	
	C5061, 62 C5063-66 C5100-03 C5200-03 C5300-02 C5303 C5304 C5305 C5306	ECUX1H822KBV ECUX1E104ZFV ECUX1E104ZFV ECUX1E104ZFV ECUX1H220JCV ECUX1H181JCV ECUX1H030CCV ECUX1H180JCV	C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 50V 22P C. CAPAGITOR CH 50V 180P C. CAPAGITOR CH 50V 3P C. CAPAGITOR CH 50V 18P	4 3 1 1 1		Q5507, 08 Q5509 Q5510, 11 Q5512, 13 Q5600, 01	2SG3130 2SG2954 2SA1022-G 2SK508-B XN5531	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	3	

VEP85151A / VEP83224B

VEP851	<u> 51a / VE</u>	P83224B							
Ref. No.	Part No.	Part Name & Description	Б.,	Remarks	Ref. No.	Part No.	Part Name & Description	P.	s Remarks
Kel. No.	rart No.	rart Name & Description	ur ca	Remarks	R5516	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	r c.	
55100	ED LOOFWOOD	M DELGITOR ON 1 (TOWN C OV	⊢.				1	1	·
R5100		M. REISITOR CH 1/10W 6.8K	<u> </u>	·	R5517		M. RESISTOR CH 1/10W 1.5K		·
R5101, 02		M. RESISTOR CH 1/10W 15K	2		R5519	ERJ6GEYG470	M. RESISTOR CH 1/10W 47		1
R5103	ERJ6GEYG682	M. REISITOR CH 1/10W 6.8K	1	<u> </u>	R5520, 21	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7K	<u> </u>	2
R5104, 05	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K	2		R5524, 25	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	7	2
R5106-09	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	4		R5526	ERJ6GEYG821	M. RESISTOR CH 1/10W 820	1	
R5200, 01	ERJ6GEY6103	M. RESISTOR CH 1/10W 10K	2		R5527	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1	
R5202		M. RESISTOR CH 1/10W 3.9K	1		R5528	ERJ6GEYG821	M. RESISTOR CH 1/10W 820	1	
	<del> </del>	M. RESISTOR CH 1/10W 10K	2		R5529	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1	
R5205		M. RESISTOR CH 1/10W 5.6K	1		R5530			<u> </u>	
			-					_	
R5206		M. RESISTOR CH 1/10W 3. 9K	1		R5531		M. RESISTOR CH 1/10W 100K	_1	
		M. RESISTOR CH 1/10W 10K	2				M. RESISTOR CH 1/10W 1.8K	2	
R5209	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K	1		R5534	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R5210, 11	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2		R5535	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R5212	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1		R5540	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R5213		M. RESISTOR CH 1/10W 3.9K	1		R5600	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
		M. RESISTOR CH 1/10W 220	1			ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
		M. RESISTOR CH 1/10W 470	2			ERJ6GEYG391	M. RESISTOR CH 1/10W 390	2	
<u></u>					~~~~~~~~~~				
	<del></del>	M. RESISTOR CH 1/10W 1K	1			ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	2	
R5218	· · · · · · · · · · · · · · · · · · ·	M. RESISTOR CH 1/10W 220	1			ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
		M. RESISTOR CH 1/10W 470	2			ERJ6GEY0102	M. RESISTOR CH 1/10W 1K	2	
R5221	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		R5611, 12	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	?
R5300	ERJ6GEYG154	M. RESISTOR CH 1/10W 150K	1		R5613.14	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	2	
		M. RESISTOR CH 1/10W 4.7K	7			ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	4	1
R5303		M. RESISTOR CH 1/10W 10K	1		R5700		M. RESISTOR CH 1/10W 10		
			1		· · · · · · · · · · · · · · · · · · ·			<del>⊢</del> ,ٰ	
			<u> </u>			ERJ6GEYG470		- 2	
R5305		M. RESISTOR CH 1/10W 3.9K	<u> </u>				M. RESISTOR CH 1/10W 120	2	
		M. RESISTOR CH 1/10W 10	1		R5705		M. RESISTOR CH 1/10W 2.2K	╚	
		M. RESISTOR CH 1/10W 4.7K		<u>-</u>	R5706	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K	口	
R5308	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1		R5707, 08	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
R5309, 10	ERJ8GCYG101	M. RESISTOR CH 1/8W 100	2		R5709, 10	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	2	
	ļ	M. RESISTOR CH 1/10W 4.7K	1				M. RESISTOR CH 1/10W 100	2	
		M. RESISTOR CH 1/10W 1.2K	1				M. RESISTOR CH 1/10W 33	2	
								_	
		M. RESISTOR CH 1/8W 27	1		K5/15-18	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	4	
		M. RESISTOR CH 1/10W 56K	1						,
R5350	ERJ6GEYG154	M. RESISTOR CH 1/10W 150K	1	J	TG5001, 02	VJR0646	TEST POINT	2	1
R5352	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1				, ,		
R5353	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		TP5001-04	VJR0646	TEST POINT	4	
R5354	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1						
		M. RESISTOR CH 1/10W 3.9K	1				MISCELLANEOUS	-	· · · · · · · · · · · · · · · · · · ·
		M. RESISTOR CH 1/10W 10	1					├	
			$\overline{}$			VMP4891	RF HOLDER ANGLE	1	
		M. RESISTOR CH 1/10W 4.7K	1						
		M. RESISTOR CH 1/10W 1.2K	_1				RF SHIELD GASE (UPPER)	<u> </u>	<u> </u>
R5359, 60	ERJ8GCYG101	M. RESISTOR CH 1/8W 100	2			VSC4386	RF SHIELD CASE (MIDDLE)	1	
R5361	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1			XTV3+6FR	SCREW	2	
R5362	ERJ6GEYG122	M. RESISTOR GH 1/10W 1.2K	1			VSC4437	RF SHIELD CASE (LOWER)	1	
R5363	ERJ8GCYJ270	M. RESISTOR CH 1/8W 27	1			VMZ2588	RF BARRIER	1	l
R5364	ERJ6GEYG563	M. RESISTOR CH 1/10W 56K	1					$\overline{}$	
<b></b>		M. RESISTOR CH 1/10W 12K						-	
		M. RESISTOR CH 1/10W 10K	3		par .	VEP83224B	V/S JACK C.B.A.	-	(RTL)
			_			7L1 0JZZ4D	T/ UNUIL U. D. M.		WL7
		M. RESISTOR CH 1/10W 2.2K	4						
		M. RESISTOR CH 1/10W 1.5K	5					-	
		M. RESISTOR CH 1/10W 10K	. 1	I l			C. CAPACITOR CH 25V 0.1U	2	
R5415		M. RESISTOR CH 1/8W 220	_1		G4	EGA1CXS470	E. CAPACITOR 16V 47U	1	
R5416	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		G5, C6	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
R5417	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	1		C8	EGA1GXS470	E. CAPACITOR 16V 47U	1	
		M. RESISTOR CH 1/10W 47	1	<u> </u>			G. CAPACITOR CH 25V 0. 1U	2	
		M. RESISTOR CH 1/10W 2.7K	2				G. CAPACITOR CH 50V 27P	1	
			_	<b> </b>			C. CAPACITOR CH 25V 0. 1U	2	
			2						
		M RESISTOR CH 1/10W 820	_1				C. CAPACITOR CH 50V 27P	_1	
		M. RESISTOR CH 1/10W 150	_1				C. CAPACITOR CH 25V 0. 1U	_2	
R5428	ERJ6GEYG821	M. RESISTOR CH 1/10W 820	_ 1		C17	ECUX1H27OJCV	C. CAPACITOR CH 50V 27P	1	
R5429	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1		C18, 19	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
		M. RESISTOR CH 1/2W 270	1				C. CAPACITOR CH 50V 27P	1	
		M. RESISTOR CH 1/10W 100K	1				C. CAPACITOR CH 25V 0.1U		
		M. RESISTOR CH 1/10W 1.8K	2	<u> </u>			C. CAPACITOR CH 50V 27P	1:	i
			1				C. CAPACITOR CH 25V 0. 1U	2	
<del></del>									
L		M. RESISTOR CH 1/10W 10K	1				C. CAPACITOR CH 50V 27P		·
		M. RESISTOR CH 1/10W 10K	_1				C. CAPACITOR CH 25V 0.1U	_1	
R5500, 01	ERJ6GEYF123	M. RESISTOR CH 1/10W 12K	2		G28, 29	EGA1GXS470	E. CAPACITOR 16V 47U	_2	
R5502-04	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	3		C30	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
		M. RESISTOR CH 1/10W 2.2K	4				E. CAPACITOR 16V 47U	2	
		M. RESISTOR CH 1/10W 1.5K	5	<b> </b>			C. CAPACITOR CH 50V 100P	6	
L		M. RESISTOR CH 1/10W 1.0K	귀				C. CAPACITOR CH 25V 0. 1U	2	
1		M. RESISTOR CH 1/8W 220		<u> </u>			G. GAPACITOR CH 25V 0. 1U	3	
10010	L.1000010221		'		0200-02	COUNTE TO 44 CIN	S. SALASTION OIL 209 U. IU	-	
			_						
			- 1		ľ				

VEP83224B / VEP81074B

VEP832	<u> 248 / VEI</u>	281074B							
Ref. No.	Part No.	Part Name & Description	Pos	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Rel. No.	Ture No.	age Hame a booding of the	۳		R33		M. RESISTOR CH 1/10W 75	1	
D1-D5	MA152K	DIODE	5		R34	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
D6-11	MA3130-L	DIODE	6		R35		M. RESISTOR CH 1/10W 330K	1	
D0-11	HDAG 100 E	D100E	H				M. RESISTOR CH 1/10W 3.3K	1	
101	NJM78L09UA	IC	1				M. RESISTOR CH 1/10W 47	2	
101		IG	H		R39		M. RESISTOR CH 1/10W 1K	1	
102	NJM79L09UA		<u> </u>		R40		M. RESISTOR CH 1/10W 33	1	
IG3	NJM78L09UA	IG .	1					2	
1G4	NJM79L09UA	10	1		R41, 42			1	
1C5	NJM78L09UA	IC	_1		R43		M. RESISTOR CH 1/10W 47	!	
IC6	NJM79L09UA	IC	1.		R44		M. RESISTOR CH 1/10W 2.2K	1	
I G209	NJM78L09UA	IG	1		R45, 46	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	2	
IC210	NJM79L09UA	IC	1		R47	VRE0034E750	M. RESISTOR CH 1/10W 75	1	
			-	, , , , , , , , , , , , , , , , , , ,	R48-50	ERJ6GEYG222	M. RESISTOR CH 1/10W 2. 2K	3	
J1, J2	VJS3902	CONNECTOR (FEMALE)	2				M. RESISTOR CH 1/10W 47	1	
	VJS3901	CONNECTOR (FEMALE)	1		R52		M. RESISTOR CH 1/10W 2.2K	1	
J3					R53, 54		M. RESISTOR CH 1/10W 220	2	
J4, J5	VJS3902	CONNECTOR (FEMALE)	2					1	
J14	VJP3414A009	CONNECTOR (MALE)	1		R55			1	
J16	VJP3414A015	CONNECTOR (MALE)	1				M. RESISTOR CH 1/10W 2.2K	3	
J17	VJP3414A025	CONNECTOR (MALE)	1		R59	1	M. RESISTOR CH 1/10W 47	1	
					R60	ERJ60EY0222	M. RESISTOR CH 1/10W 2.2K	1	
L1	VLQEL05F101J	COIL 100UH	1		R61, 62	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	2	
	1		Г		R63	VRE0034E750	M. RESISTOR CH 1/10W 75	1	
P1	VJP3375A060	CONNECTOR (MALE)	1		R64-66		M. RESISTOR CH 1/10W 2.2K	3	
		Vincent	H.		R67		M. RESISTOR CH 1/10W 47	1	
01	2011020	TRANSISTOR	-		R68		M. RESISTOR CH 1/10W 2.2K	1	
Q1 00	2SA1022~B				R69, 70		M. RESISTOR CH 1/10W 220	2	
Q2	2SC2295-B	TRANSISTOR	<u> </u>		<b></b>				
Q3	2SA1022-B	TRANSISTOR	_1		R71		M. RESISTOR CH 1/10W 75	<u> </u>	
Q4	2SC2295-B	TRANSISTOR	1		R72-74		M. RESISTOR CH 1/10W 2. 2K	3	
Q5	2SA1022-B	TRANSISTOR	1		R75		M. RESISTOR CH 1/10W 47	<u>1</u>	
Q6	2SC2295-B	TRANSISTOR	1		R76		M. RESISTOR CH 1/10W 2.2K	1	
Q7	2SA1022-B	TRANS1STOR	1		R77, 78	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	2	
Q8	2SC2295-B	TRANSISTOR	1		R79	VRE0034E750	M. RESISTOR CH 1/10W 75	1	
09	2SA1022-B	TRANSISTOR	1	<del></del>			M. RESISTOR CH 1/10W 2.2K	3	
				**	1		M. RESISTOR CH 1/10W 47	1	
Q10	2SC2295-B	TRANSISTOR	<u> </u>					1	
Q11	2SB709A-R	TRANSISTOR			R84		M. RESISTOR CH 1/10W 2. 2K	<u> </u>	
Q12, 13	2SD601A-R	TRANSISTOR	2		R85, 86		M. RESISTOR CH 1/10W 220	2	
Q14	2SB709A-R	TRANSISTOR	1		R87		M. RESISTOR CH 1/10W 75	1	·
Q15, 16	2SD601A-R	TRANSISTOR	2		R88	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
Q17	2SB709A-R	TRANSISTOR	1						
Q18, 19	2SD601A-R	TRANSISTOR	2		SW1, W2	VSS0307	SWITCH	2	
Q20	2SB709A-R	TRANSISTOR	1					Т	
Q21, 22	2SD601A-R	TRANSISTOR	2				MISCELLANEOUS		
		TRANSISTOR	1:		ļ				
Q23	2SB709A-R				<u> </u>	VMP4865	VIDEO 1/O ANGLE	4	
Q24, 25	2SD601A-R	TRANSISTOR	2		ļ		D SUB ANGLE	1	
Q26	2SB709A-R	TRANSISTOR	1					6	
Q27, 28	2SD601A-R	TRANSISTOR	2				SCREW	-	
							SCREW	4	
R1	VRE0034E750	M. RESISTOR CH 1/10W 75	1				SCREW	- 5	
R2	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1		L	XYE3+EF8	SCREW	2	
R3		M. RESISTOR CH 1/10W 330K	1					Ĺ	
R4		M. RESISTOR CH 1/10W 3.3K	1					Г	
R5, R6		M. RESISTOR CH 1/10W 47	2			VEP81074B	POWER 1 C. B. A.	1	(RTL)
		M. RESISTOR CH 1/10W 1K	1					m	
. R7		M. RESISTOR CH 1/10W 33	H		<del> </del>	<u> </u>		<del>                                     </del>	
R8			<u> </u>		01.00	COULD'S SO ANN	P. CAPACITOR 100V 0. 22U	2	
R9		M. RESISTOR CH 1/10W 75	1		C1, G2			2	
R10		M. RESISTOR CH 1/10W 47	- 1		G3, G4		C. CAPACITOR 2200P	1	
R11		M. RESISTOR CH 1/10W 330K	1		G5		C. CAPACITOR 1000P	1	
R12	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1		C7, C8	ECEC2EG471XX		2	
R13, 14	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2		G9, 10		E. CAPACITOR 50V 22U	2	
R15	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		C11		E. CAPACITOR 50V 1U	1	
R16		M. RESISTOR CH 1/10W 33	1	······································	G12	ECQB1H332JF	P. GAPACITOR 50V 3300P	1	
R17		M. RESISTOR CH 1/10W 75	1		G13		E. CAPACITOR 50V 1U	1	
R18		M. RESISTOR CH 1/10W 47	1		C14		P. CAPACITOR 50V 0. 1U	1	
R19		M. RESISTOR CH 1/10W 330K	+	<del></del>	C15		P. CAPACITOR 50V 3300P	- 1	
		M. RESISTOR CH 1/10W 3.3K	<del>  ;</del>		C16		P. CAPACITOR 50V 470P	Ť	
R20	ļ						P. GAPACITOR 50V 0.1U	2	
R21, 22		M. RESISTOR CH 1/10W 47	2					-	
R23		M. RESISTOR CH 1/10W 1K	- 1		C19		P. CAPACITOR 50V 5600P	1	
R24		M. RESISTOR CH 1/10W 33	_1		G20		P. CAPACITOR 50V 0. 1U	1	
R25	VRE0034E750	M. RESISTOR CH 1/10W 75	1		C21		P. CAPACITOR 50V 470P	1	
R26	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1		G22	EGQB1H562JF	P. CAPACITOR 50V 5600P	1	
R27		M. RESISTOR CH 1/10W 330K	1		G23	EGQB1H104JF	P. CAPACITOR 50V 0.1U	1	
R28		M. RESISTOR CH 1/10W 3.3K	1		<b>⚠</b> C24, 25	VCK0262K221A	C. CAPACITOR 220P	2	
R29, 30		M. RESISTOR CH 1/10W 47	2		C26		E. CAPACITOR 50V 1U	1	
R31		M. RESISTOR CH 1/10W 1K	+÷		G27		C. CAPACITOR 50V 3300P	1	
NO I	LINOVALIATOZ		1		C28		E. CAPACITOR 16V 10U	1	
Dag	ED ICCEVOSOR					I POUL LANGING		١ ١	
R32	ERJ6GEYG330	M. RESISTOR CH 1/10W 33				1			
R32	ERJ6GEYG330	M. RESISTOR CH 1/10W 33							
R32	ERJ6GEYG330	M. RESISTOR CH 1/10M 33							

VEP81074B / VEP81075B

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Ref. No.		Part Name & Description		Remarks Ref	f. No.		Part Name & Description CAPACITOR COVER	20 1	s Remarks
		E. CAPACITOR 400V 10U					CAPACITOR COVER	2	2
		P. CAPACITOR 50V 1U	-				BARRIER	2	
		P. CAPACITOR 100V 0. 022U	1-1					<del>'</del>	
G32	ECQU2A823MN	P. CAPACITOR 250V 0. 082U	<u> </u>	<u> </u>			CAPACITOR COVER	-	
			<u> </u>			XTV3+10G	SCREW	-	•
		DIODE	1					├	
		DIODE	1			VED 04 03ED	DOWER O O D 4	١.,	(RTL)
		DIODE	1			VEP81075B	POWER 2 C. B. A.	<u> </u> '	(RIL)
		DIODE	1						
		DIODE	1				7 010170D 48W 0000D	١.	<u> </u>
		DIODE	1	G40,			E. CAPACITOR 10V 6800P	2	
		DIODE	2			ECA1VFQ102LE		Ľ	
		DIODE	1	C43			E. CAPACITOR 25V 4700P	<u> </u>	
		DIODE	1	C44			E. CAPACITOR 16V 2700P	<u> </u>	
		DIODE	2	C45			E. CAPACITOR 16V 1000P	<u> </u>	
D20-22		DIODE -	3	C46		EEUFA1E681E		<u> </u>	
		DIODE	2	C47.			E. CAPACITOR 16V 100U	2	
		DIODE	1	C49			E. CAPACITOR 35V 470U		
D26	MA4051-M	DIODE	1	C50		ECA1EXLV101X		<u> </u>	1
			$\vdash$	C51-			E. CAPACITOR 16V 100U	3	<u> </u>
	FA5311P	IC	2	C54			P. CAPACITOR 50V 0.1U	3	
103	MK1210	IC	1	C59			P. CAPACITOR 50V 0.1U	1	
			_	C60			C. CAPACITOR 50V 120P	1 1	
		COIL	1	G61			C. CAPACITOR 150P	-1	
<b>⚠</b> L3	ELF18D604	COIL	1	C62			C. CAPACITOR 220P		
			1_	C63			E. CAPACITOR 35V 47U	1	
		CONNECTOR (MALE)	1	G64			C. CAPACITOR 150P	_1	
		CONNECTOR (MALE)	2	C65			C. CAPACITOR 220P	_1	
		CONNECTOR (MALE)	1	C66			E. CAPACITOR 35V 47U	1	
P5	VJP3080	CONNECTOR (MALE)	1	G67,			P. CAPACITOR 630V 0. 047U	2	
				C69			C. GAPACITOR 500V 100P	1	
Q2, Q3	2SD893	TRANSISTOR	2	C70-			G. CAPACITOR 50V 100P	6	ļ
Q4	UN1111	TRANSISTOR-RESISTOR	1	C76-			E. CAPACITOR 10V 8200P	3	3
05	2SD637	TRANSISTOR	1	G79		ECKF1H121KB	C. CAPACITOR 50V 120P	1	
				C80,	. 81		P. CAPACITOR 50V 2200P	2	
R1	ERG12GM334	S. RESISTOR 1/2W 330K	1	G82		EGQV1H823JL	P. GAPACITOR 50V 0. 082U	1	
R2	ERDS2TJ103	C. RESISTOR 1/4W 10K	1					L	
R3	ERDS2FJ102	C. RESISTOR 1/4W 1K	1	D30			DIODE	1	
R4	ERG2SJ471	M. RESISTOR 2W 470	1	D31			DIODE	1	
<b>∆</b> R5	ERU5TEK100	F. RESISTOR 5W 10	1	D32			DIODE	1	
R6	ERG3SJ101	M. RESISTOR 3W 100	1	D33			DIODE	1	
R7, R8		C. RESISTOR 1/4W 680K	2	D34			DIODE	1	· · · · · · · · · · · · · · · · · · ·
R9	ERDS1TJ220	C. RESISTOR 1/2W 22	1	D35			DIODE	1	
R10	ERDS2FJ104	C. RESISTOR 1/4W 100K	1	D36	ال		DIODE	_1	
R11	EROS2CKF4700	M. RESISTOR 1/4W 470	1	D37,			DIODE	2	2
		C. RESISTOR 1/4W 100K	2	D39			DIODE	1	<u> </u>
R14, 15	ERDS1TJ394	C. RESISTOR 1/2W 390K	2	D40			DIODE	1	
		C. RESISTOR 1/2W 22	- 1	D41,	42	MA4130-M	DIODE	2	
R17	EROS2GKF4700	M. RESISTOR 1/4W 470	1	D43	ji	MA4160-L	DIODE	_1	
R18, 19	ERDS2FJ105	C. RESISTOR 1/4W 1M	2	D44.	45	ERA22-06	DIODE	2	
		C. RESISTOR 1/2W 47	1	D46			DIODE	1	
		C. RESISTOR 1/2W 330K	1	D47			DIODE	1	
	ERDS1TJ104	G. RESISTOR 1/2W 100K	2	D48			DIODE	1	
R25	ERDS2FJ103	C. RESISTOR 1/4W 10K	1	D49			DIODE	1	
R26	ERDS2FJ473	C. RESISTOR 1/4W 47K		D50			DIODE	1	
R27	ERDS2FJ563	C. RESISTOR 1/4W 56K		D51		MA4240-H	DIODE	1	
R28	EROS2CKF4701		_					<u> </u>	
R29	ERDS2FJ221	C. RESISTOR 1/4W 220	_	I IC11	1, 12	UPC1093J	10	2	?
R30	EROS2CKF2700	M. RESISTOR 1/4W 270	1					_	
R31	ERDS1TJ470	C. RESISTOR 1/2W 47	1	L12			COIL	1	
	ERDS1TJ334	C. RESISTOR 1/2W 330K	1	L13			COIL	1	
		C. RESISTOR 1/2W 100K	2	L14			GOIL	1	
		C. RESISTOR 1/4W 100K		L15			COIL	1	
	EROS2GKF4701			L16		VLQ0354	COIL	1	
		C. RESISTOR 1/4W 220		L17.	. 18	VLQ0410	COIL	2	
	EROS2GKF2700			L19-	-22	VLP0074	COIL	4	
		C. RESISTOR 1/2W 390K	_						
		C. RESISTOR 1/4W 680K		P11		VJP2824B003	CONNECTOR (MALE)	1	
		G. RESISTOR 1/4W 100K		P12		VJP2824B006	CONNECTOR (MALE) 6P	1	
		C. RESISTOR 1/4W 47K	+	. P13	,	VJP2824B008	CONNECTOR (MALE)	1	
			† <u> </u>	P14			CONNECTOR (MALE) 3P	1	
	· · · · · · · · · · · · · · · · · · ·	MISCELLANEOUS	1					Γ	
	· · · · · · · · · · · · · · · · · · ·		+	<b>∆</b> Q11.	. 12	2SK1684	TRANSISTOR	2	
	VSG3434	SHIELD CASE	1	013-			TRANSISTOR-PHOTO COUPLER	4	
	XYN3+F6FZS	SCREW	1	Q18		UN1214	TRANSISTOR-RESISTOR	1	
<del> </del>			Ť					Ι_	
<del> </del>			T					Г	
	AINS+F0F28	SURE				I dr	T UTO OTTEN	TI WIO UNILIT INMUSION RECOVER	I VIO VIELT INVOCATION INCOME.

VEP81075B / VEP80856A / VEP82214A / VEP82210A

			D 0 11	5	B. A. N B. D	D -	Parada.
	Part Name & DescriptionP	cs Remarks	Ref. No.		Part Name & Description	PCS	Remarks
UN1114	TRANSISTOR-RESISTOR	1	C100		C. CAPACITOR CH 25V 0. 1U	<u> </u>	
			C101		E. CAPACITOR CH 16V . 47U	1	
ERG2SJ470	M. RESISTOR 2W 47	1	G102	ECATHEN101	E. GAPAGITOR 50V 100U	1	<u> </u>
ERDS2FJ183	C. RESISTOR 1/4W 18K	2			·		
EROS2CKF1801	M. RESISTOR 1/4W 1.8K	1	D1	MA157	DIODE	1	
	M. RESISTOR 2W 47	1	D1 0:	MA738	DIODE	1	
VRT0142	THERMISTOR	1		MA738	DIODE	2	
		1	D100,01	1101700		H	
	C. RESISTOR 1/4W 330	1	i	0017700		H,	
	C. RESISTOR 1/4W 10K	1	IC1	OP177GS	10	<u> </u>	
EROS2CKF3601	M. RESISTOR 1/4W 3.6K	1	101 0	MC14538BF	IC	_ 1	<u> </u>
EROS2CKF4700	M. RESISTOR 1/4W 470	1	1 G2	0P177GS	IC	1	
ERDS2TJ103	C. RESISTOR 1/4W 10K	1	1C3	NJM4580ED	IC	1	
	C. RESISTOR 1/4W 220	1	1C4-C6	UPG4558G2	10	3	
ERG2SJ681	M. RESISTOR 2W 680	11	IC10	NJM78L09UA	IC	1	
		1	IC11	NJM79LO9UA	1C	1	
ER62SJ221		4	1011	TORITO COSON		-	
	G. RESISTOR 1/4W 330	<u></u>	<del></del>	W. 510101470	PIL YER	-	
	C. RESISTOR 1/4W 220	1			FILTER		
ERDS2TJ103	C. RESISTOR 1/4W 10K	1	L100	VLP0133	COIL	1	
EROS2CKF6801	M. RESISTOR 1/4W 6.8K	1					
	M. RESISTOR 1/4W 1.6K	1	P1	VJP2891A030	CONNECTOR (MALE)	1	
ERDS2TJ103	C. RESISTOR 1/4W 10K	1	P2	VJP3418A080	CONNECTOR (MALE)	1	
		1	P11	VJP3172D002	CONNECTOR (MALE)	1	
ERG3SJ393	M. RESISTOR 3W 39K	1			CONNECTOR (MALE)	1	
ERG2SJ180	M. RESISTOR 2W 18	1	P12	VJP3172D005		<u> </u>	
ERDS2FJ100	C. RESISTOR 1/4W 10	1	P13	VJP3172D002	CONNECTOR (MALE)	1	
ERDS2FJ104	C. RESISTOR 1/4W 100K	1	P14	VJP3172D003	CONNECTOR (MALE)	1	
ERW1PKR33	W. RESISTOR 1W 0.33	1	P15	VJP3518B002	CONNECTOR (MALE)	П	
ERG3SJ393	M. RESISTOR 3W 39K	1	P16	VJP3518B003	CONNECTOR (MALE)	1	
	M. RESISTOR 2W 18	1	P17	VJS3801B010	CONNECTOR (FEMALE)	Ħ	
ERG2SJ180		1	P18	VJP3518B002	CONNECTOR (MALE)	ļ ;	
ERDS2FJ100	C. RESISTOR 1/4W 10	1)	<del></del>			<u> </u>	
ERDS2FJ104	G. RESISTOR 1/4W 100K	1	P19	VJP3172D002	CONNECTOR (MALE)	_1	
ERW1PKR33	W. RESISTOR 1W 0.33	1	P20	VJP3518B003	CONNECTOR (MALE)		
1			P21	VJP3518B002	CONNECTOR (MALE)	1	
VLT0860	TRANSFORMER	1	P22, 23	VJP3172D004	CONNECTOR (MALE)	2	1
VLT0861	TRANSFORMER	1	P24	VJP3518B002	CONNECTOR (MALE)	1	
VL 10001	TIGHT OTHER		P25	VJP1230T	CONNECTOR (MALE) 3P	-	
					CONNECTOR (MALE) 9P		
VRV0064B501	V. RESISTOR 500	2	P26	VJP1236T		-	
İ			P30	VJP3172D003	CONNECTOR (MALE)		
	MISCELLANEOUS		P32	VJP3172D004	CONNECTOR (MALE)	<u> </u>	
			P33	VJS3406B015	CONNECTOR (FEMALE)	1	
VSC4389	HEAT SINK (A)	1	P34, 35	VJS2889A017	CONNECTOR (FEMALE)	2	
VSC4390	HEAT SINK (B)	1	P36	VJS3406B019	CONNECTOR (FEMALE)	1	
		7	P41	VJP3172D002	CONNECTOR (MALE)	1	
XYN3+F8FZS	SCREW					<del> </del> —'	
VMZ2504	INSULATION SHEET	1	P48	VJP3125B002	CONNECTOR (MALE)	_1	
XYN3+C8FZS	SCREW	4				L	
			01 0	2SB1073-R	TRANSISTOR	1	
			Q1	2SB1218A-R	TRANSISTOR	1	
VEP80856A	CARRIGE C. B. A.	1 (RTL)	Q100	2SB1073-R	TRANSISTOR	1	
12. 00000,	Order of D. D. 7.	1,000				<del> </del>	
ļ	<del> </del>		QR1	UN2214	TRANSISTOR-RESISTOR	1	
VJP1249T	CONNECTOR (MALE) 9P	1	QR100	UN2214	TRANSISTOR-RESISTOR	1	
VJS2889A012	CONNECTOR (FEMALE)	1					
VJS2889A016	CONNECTOR (FEMALE)	1	R1	ERJ6GEYG821	M. RESISTOR CH 1/10W 820	L1	
			R1 0:	ERJ6GEYJ334	M. RESISTOR CH 1/10W 330K	1	
ERDS2TJ221	C. RESISTOR 1/4W 220	7		I	M. RESISTOR CH 1/10W 22K	1	
	1/41 220	<del> </del>	R2, R3		M. RESISTOR CH 1/10W 5.6K	2	
<del> </del>	<b></b>				M. RESISTOR CH 1/8W 1K	1	
<u> </u>	<u></u>	- (771)				⊢:	<b></b>
VEP82214A	MECH I/F C. B. A.	1 (RTL)	R4		M. RESISTOR CH 1/10W 5. 6K	ᆜ	
VEP82210A	MECH IF SUB G. B. A.	1 (RTL)	R5		M. RESISTOR CH 1/10W 47K	1	
_			R6, R7	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	\
	E. CAPACITOR CH 16V 10U	1	R8	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	1	1
#EGEV1GV1000		1	R9, 10	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
		1			M. RESISTOR CH 1/10W 47K	1	
ECUM1H561JCN	C. CAPACITOR CH 50V 0.01U	<u> </u>	R11				
ECUM1H561JCN ECUM1H103KBN	G. GAPACITOR CH 50V 0.01U	11	R12, 13		M. RESISTOR CH 1/10W 10K	2	·
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN			R14		M. RESISTOR CH 1/10W 100K	1	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN	E. CAPACITOR CH 16V 47U	<u> </u>	1 -2-	VRE0034E823	M. RESISTOR CH 1/10W 82K	1	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	R15		M. RESISTOR CH 1/10W 22K	1	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN	E. CAPACITOR CH 16V 47U  G. CAPACITOR CH 50V 0.01U	1		VRE0034E223		<u> </u>	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN ECEV1CV470Q	E. CAPACITOR CH 16V 47U G. CAPACITOR CH 50V 0.01U E. CAPACITOR CH 16V 47U	1 2	R16			1	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN ECEV1CV470Q ECUM1E104ZFN	E. CAPACITOR CH 16V 47U C. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 16V 47U C. CAPACITOR CH 25V 0. 1U	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	R16 R17	ERJ6GEYG273	M. RESISTOR CH 1/10W 27K	<u></u>	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN ECEV1CV470Q ECUM1E104ZFN ECUM1H103KBN	E. CAPACITOR CH 16V 47U G. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 16V 47U G. CAPACITOR CH 25V 0. 1U G. CAPACITOR CH 50V 0. 01U	1	R16 R17 R18	ERJ6GEYG273 ERJ6GEYG103	M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 10K	1	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN ECEV1CV470Q ECUM1E104ZFN ECUM1H103KBN ECUM1E104ZFN ECUM1H103KBN	E. CAPACITOR CH 16V 47U G. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 16V 47U G. CAPACITOR CH 25V 0. 1U G. CAPACITOR CH 50V 0. 01U G. CAPACITOR CH 25V 0. 1U G. CAPACITOR CH 25V 0. 1U	1	R16 R17 R18 R19	ERJ6GEYG273 ERJ6GEYG103 ERJ6GEYG273	M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 27K	1	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN ECEV1CV470Q ECUM1E104ZFN ECUM1H103KBN ECUM1E104ZFN ECUM1H103KBN	E. CAPACITOR CH 16V 47U G. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 16V 47U G. CAPACITOR CH 25V 0. 1U G. CAPACITOR CH 50V 0. 01U G. CAPACITOR CH 25V 0. 1U G. CAPACITOR CH 25V 0. 1U	1	R16 R17 R18	ERJ6GEYG273 ERJ6GEYG103 ERJ6GEYG273	M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 27K	1	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN ECEV1CV470Q ECUM1E104ZFN ECUM1E104ZFN ECUM1E104ZFN ECUM1E104ZFN ECUM1E104ZFN	E. CAPACITOR CH 16V 47U G. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 16V 47U G. CAPACITOR CH 25V 0. 1U G. CAPACITOR CH 50V 0. 01U G. CAPACITOR CH 25V 0. 1U G. CAPACITOR CH 25V 0. 1U	1	R16 R17 R18 R19	ERJ6GEYG273 ERJ6GEYG103 ERJ6GEYG273 ERJ6GEYG102	M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 27K	1	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN ECEV1CV470Q ECUM1E104ZFN ECUM1H103KBN ECUM1E104ZFN ECUM1E104ZFN ECEV1CV470Q ECUM1H103KBN	E. CAPACITOR CH 16V 47U C. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 16V 47U C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 25V 0. 1U E. CAPACITOR CH 25V 47U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U	1 1 2	R16 R17 R18 R19 R20	ERJ6GEYG273 ERJ6GEYG103 ERJ6GEYG273 ERJ6GEYG102	M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 1K	1 1	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN ECEV1CV470Q ECUM1E104ZFN ECUM1E104ZFN ECUM1E104ZFN ECEV1CV470Q ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN ECUM1H103KBN ECUM1H103KBN	E. CAPACITOR CH 16V 47U C. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 16V 47U C. CAPACITOR CH 25V 0. 1U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 25V 0. 01U E. CAPACITOR CH 16V 47U C. CAPACITOR CH 16V 47U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U	1 1 2 1	R16 R17 R18 R19 R20 R21 R22	ERJ6GEYG273 ERJ6GEYG103 ERJ6GEYG273 ERJ6GEYG102 VRE0034E183 VRE0034E473	M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 18K M. RESISTOR CH 1/10W 47K	1 1 1	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN ECEV1CV470Q ECUM1E104ZFN ECUM1E104ZFN ECUM1E104ZFN ECUM1H103KBN ECUM1E104ZFN ECUM1H103KBN ECUM1H103KBN ECUM1H103KBN ECUM1H103KBN	E. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 50V 0. 01U E. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 25V 0. 1U E. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 25V 0. 1U	1 1 2 1	R16 R17 R18 R19 R20 R21 R22 R23	ERJ66EY6273 ERJ66EY6103 ERJ66EY6273 ERJ66EY6102 VRE0034E183 VRE0034E473 VRE0034E682	M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 18K M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/10W 6.8K	1 1 1 1 1	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN ECEV1CV470Q ECUM1E104ZFN ECUM1E104ZFN ECUM1E104ZFN ECEV1CV470Q ECUM1H103KBN ECUM1H103KBN ECUM1H103KBN ECUM1H103KBN ECUM1H103KBN	E. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 50V 0. 01U E. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 50V 0. 01U	1 1 2 1	R16 R17 R18 R19 R20 R21 R22 R23 R24	ERJ6GEYG273 ERJ6GEYG103 ERJ6GEYG273 ERJ6GEYG102 VRE0034E183 VRE0034E473 VRE0034E682 VRE0034E222	M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 17K M. RESISTOR CH 1/10W 17K M. RESISTOR CH 1/10W 18K M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/10W 6. 8K M. RESISTOR CH 1/10W 2. 2K	1 1 1 1 1	
ECUM1H561JCN ECUM1H103KBN ECUM1H103KBN ECEV1CV470Q ECUM1H103KBN ECEV1CV470Q ECUM1E104ZFN ECUM1E104ZFN ECUM1E104ZFN ECEV1CV470Q ECUM1H103KBN ECUM1H103KBN ECUM1H103KBN ECUM1H103KBN ECUM1H103KBN	E. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 50V 0. 01U E. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 25V 0. 1U E. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 25V 0. 1U	1 1 2 1	R16 R17 R18 R19 R20 R21 R22 R23	ERJ66EY6273 ERJ66EY6103 ERJ66EY6273 ERJ66EY6102 VRE0034E183 VRE0034E473 VRE0034E682	M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 27K M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 18K M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/10W 6.8K	1 1 1 1 1	
ECUMTH561JCN ECUMTH103KBN ECUMTH103KBN ECEVTCV470Q ECUMTH103KBN ECEVTCV470Q ECUMTH103KBN ECUMTE104ZFN ECUMTH103KBN ECUMTE104ZFN ECUMTE104ZFN ECEVTCV470Q	The second secon	C. CAPAGITOR CH 50V 0. 01U E. CAPAGITOR CH 16V 47U C. CAPAGITOR CH 25V 0. 1U C. CAPAGITOR CH 50V 0. 01U C. CAPAGITOR CH 25V 0. 1U E. CAPAGITOR CH 16V 47U	E. CAPAGITOR CH 16V 47U 1 C. CAPAGITOR CH 25V 0.1U 2 C. CAPAGITOR CH 50V 0.01U 1 C. CAPAGITOR CH 25V 0.1U 1 E. CAPAGITOR CH 16V 47U 2	E. GAPAGITOR CH 16V 47U 1 C. GAPAGITOR CH 25V 0. 1U 2 C. GAPAGITOR CH 50V 0. 01U 1 C. GAPAGITOR CH 50V 0. 01U 1 C. GAPAGITOR CH 25V 0. 1U 1 C. GAPAGITOR CH 16V 47U 2 R20	C. CAPAGITOR CH 25V 0. 1U 2 C. CAPAGITOR CH 50V 0. 01U 1 C. CAPAGITOR CH 50V 0. 01U 1 C. CAPAGITOR CH 25V 0. 1U 1 C. CAPAGITOR CH 25V 0. 1U 1 C. CAPAGITOR CH 16V 47U 2 C. CAPAGITOR CH 16V 47U 2 C. CAPAGITOR CH 16V 47U 2	C. CAPAGITOR CH 50V 0.01U 1 R18 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K C. CAPAGITOR CH 25V 0.1U 1 R19 ERJ6GEYG273 M. RESISTOR CH 1/10W 27K E. CAPAGITOR CH 16V 47U 2 R20 ERJ6GEYG102 M. RESISTOR CH 1/10W 1K	C. CAPAGITOR CH 50V 0.01U 1 R18 ERJGGEYG103 M. RESISTOR CH 1/10W 10K 1 C. CAPAGITOR CH 25V 0.1U 1 R19 ERJGGEYG273 M. RESISTOR CH 1/10W 27K 1 E. CAPAGITOR CH 16V 47U 2 R20 ERJGGEYG102 M. RESISTOR CH 1/10W 1K 1

Ref. No. R27 R34 R36, 37	Part No.	P84291A / VEP80A1 Part Name & Description							
R27 R34 R36, 37		THE PARTY OF DESCRIPTION	Pcs	Remarks Ref. No	0.	Part No.	Part Name & Description	Pos	Remarks
R36, 37	EKODUE I UNUU	M. RESISTOR CH 1/10W 0		R111	E	RJ6GEYJ334	M. RESISTOR CH 1/10W 330K	1	
	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	R112			M. RESISTOR CH 1/10W 3.3K	1	
R100	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2	R116			M. RESISTOR CH 1/10W 33	1	
	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	R117, 18			M. RESISTOR CH 1/10W 2.2K	2	
R101	ERJ8GCYJ102	M. RESISTOR CH 1/8W 1K	1	R119	<del></del>		M. RESISTOR GH 1/10W 47	1	
R102	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	R120			M. RESISTOR CH 1/10W 2.2K	1	
			_	R121, 22	<del>-</del>		M. RESISTOR CH 1/10W 220	2	
TG1	VJR0646	TEST POINT	1	R123			M. RESISTOR CH 1/10W 2.2K	1	
				R124			M. RESISTOR CH 1/10W 75	1	
TP1	VJR0646	TEST POINT	_1	R125, 26			M. RESISTOR CH 1/10W 2.2K	2	
				R127			M. RESISTOR CH 1/10W 47	1	
VR1		V. RESISTOR 20K	1	R128			M. RESISTOR CH 1/10W 2.2K	1	
VR2	VRV0064B503	V. RESISTOR 50K	1	R129, 30			M. RESISTOR CH 1/10W 220	2	
		<u> </u>		R131	_		M. RESISTOR CH 1/10W 2.2K	1	
		MISCELLANEOUS		R132	_		M. RESISTOR CH 1/10W 75	1	
				R133	<del></del>		M. REISITOR CH 1/10W 6.8K		
	VJR0422	SHAFT	3	R134, 35			M. RESISTOR CH 1/10W 10K	2	
	:			R136			M. RESISTOR CH 1/10W 1M	1	
				R137			M. RESISTOR CH 1/10W 10K	_1	
	VEP84291A	A JACK G. B. A.	1	(RTL) R138			M. RESISTOR CH 1/10W 39K	1	
				R139			M. RESISTOR CH 1/10W 0	_1	
				R140	E	RJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
		C. CAPACITOR CH 50V 0.01U	2		_				
		G. CAPACITOR CH 50V 0.01U	2				MISCELLANEOUS		
		C. CAPACITOR CH 25V 0.1U	1						
		E. CAPACITOR 16V 47U	1				XLR GUIDE ANGLE (A)	1	
		C. CAPACITOR CH 25V 0.1U	1		X	YN26+F8	SCREW	2	
		E. CAPACITOR 16V 47U	1		_	******			
		C. CAPACITOR CH 25V 0.1U	4						(8-1)
		C. CAPACITOR CH 50V 100P	1		<b>V</b>	EP80A12A	TC & JACK C.B.A.	1	(RTL)
C110	ECUM1H270JCN	G. GAPAGITOR CH 50V 27P	1						
G111	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1						
G112	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	J1, J2			CONNECTOR (FEMALE)	2	
C113-17	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	5	J3, J4	٧	JS3154	CONNECTOR (FEMALE)	2	
C121, 22	ECUM1H33OJCN	C. CAPACITOR CH 50V 33P	2	J5	V.	JJ0322	MOTOR JACK	_1	
D1, D2	MA152K	DIODE	2	P1	۷.	JP3094	CONNECTOR (MALE)	1	
D3, D4	MA3130-L	DIODE	2			·			
							MISCELLANEOUS		
101	NJM78L09UA	IC	1						
102	NJM79L09UA	IC	1		٧	SG4617	RGA SHIELD PLATE	1	
J1, J2	VJS3417	CONNECTOR (FEMALE)	2						
J7, J8	VJP3417	CONNECTOR (MALE)	2		■ V	EP86256A	FRONT CPU C. B. A.	1	(RTL)
P1		CONNECTOR (MALE)	1		丄				
P2	VJP3094	CONNECTOR (MALE)	1	G1			C. CAPACITOR CH 50V 0.01U	_1	
				. G2	_		E. CAPACITOR CH 50V 2. 2U	_1	
Q1	2SA1022-B	TRANSISTOR	1	G3			G. GAPACITOR CH 50V 0.01U	1	
Q2	2SC2295-B	TRANSISTOR	1	G4, G5			C. CAPACITOR CH 50V 22P	2	
Q3	2SA1022-B	TRANSISTOR	1	C6			G. CAPACITOR CH 25V 0.1U	1	
Q5	2SB709A-R	TRANSISTOR	1	G7-12			G. CAPACITOR CH 50V 0.01U	6	
Q6, Q7	2SD601A-R	TRANSISTOR	2	C13			C. CAPACITOR CH 25V 0.1U	1	
Q8	2SB709A-R	TRANSISTOR	1	C14			C. CAPACITOR CH 50V 0.1U	_1	
Q9, 10	2SD601A-R	TRANSISTOR	2	G15-17			C, CAPACITOR CH 50V 0.01U	3	
Q11	UN2112	TRANSISTOR-RESISTOR	1	C18			E. CAPACITOR 6. 3V 470U	1	
Q12	2SD601A-R	TRANSISTOR	1	C19			E. GAPACITOR CH 50V 1U	1	
Q13	UN2213	TRANSISTOR-RESISTOR	1	G20, 21			C. CAPACITOR CH 50V 0. 033U	2	
				G22			E. CAPACITOR 50V 33U	1	
R2	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	G23			C. CAPACITOR CH 25V 0.1U	1	
R4	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	G24			E. CAPACITOR CH 16V 47U	1	
R6	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	C25, 26	E		G. CAPACITOR CH 25V 0.1U	2	
R8	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	G27			E. CAPACITOR CH 16V 47U	1	
	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	C28, 29	E	CUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	C30	E	CEV1CV470Q	E. CAPAGITOR CH 16V 47U	1	
		M. RESISTOR CH 1/10W 0	1	G31, 32	E		C. CAPACITOR CH 50V 0.01U	2	
R32	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	C33	E	CEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
		M. RESISTOR CH 1/10W 75	1	C34, 35	E	CUM1H103KBN	G. CAPACITOR CH 50V 0.01U	2	
		M. RESISTOR CH 1/10W 330K	1	C36	E	CEV1CN100Q	E. CAPACITOR CH 16V 10U	_1	
		M. RESISTOR CH 1/10W 3.3K	1	G40			C. CAPACITOR CH 50V 0.01U	1	
R103		M. RESISTOR CH 1/10W 47	2		1			_	
R103 R104	ERJ6GEYG470		-		-1.		. ==		
R103 R104 R105, 06			1	D1	ILI	N28RCPP	LED	- 1	
R103 R104 R105, 06 R107	ERJ6GEY6102	M. RESISTOR CH 1/10W 1K	1	D1 D2-D5	_		LED	4	
R103 R104 R105, 06 R107 R108	ERJ6GEYG102 ERJ6GEYG330	M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 33	_		LI	N38GCPP		4	
R103 R104 R105, 06 R107 R108 R109	ERJ6GEY6102 ERJ6GEY6330 VRE0034E750	M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 33	1	D2-D5	LI M	N38GGPP IA152WK	LED		
R103 R104 R105, 06 R107 R108 R109	ERJ6GEY6102 ERJ6GEY6330 VRE0034E750	M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 33 M. RESISTOR CH 1/10W 75	1	D2-D5 D7-14	LI M	N38GGPP IA152WK	LED DIODE		

VEP86256A / VEP80A09A / VEP80A10A / VEP80991A

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Ref. No.			Pcs	Remarks Ref. No.		Part Name & Description		
D19	MA152WK	DIODE	1	SW9-16	VSP1031	SWITCH	8	1
D20-24	MA152K	DIODE	5	SW17, 18	VSS0280	SWITCH	2	
D25	MA4300-M	DIODE	_1	S₩19, 20	VSS0346	SWITCH	2	
D26	MA166	DIODE	_1	SW21, 22	VSS0280	SWITCH	2	<u> </u>
D27	MA4062M	DIODE	_1	SW23	VSS0346	SWITCH		
D28, 29	MA166	DIODE	2					
·				TG1	EYF6CU	TEST POINT		
DP1	VSL0489	DISPLAY	_1					
				TR1	VLT0884	TRANSFORMER	1	
F1	EYP2BN135	FUSE	_1				L.,	ļ
			_	VR1, R2	EVUFSAE03A14	V. RESISTOR 10K	_2	<u> </u>
FL1-L4	VLF1016A470	FILTER	4		1			
				X1	VSX0641	CRYSTAL OSCILLATOR	1	
IC1	HD64180ZRP8	IC	1					
1G2	VS12386	IC	1			MISCELLANEOUS		
1 C3	K6256CLG7L	16	1					
1G4	TL7705CPSB	IC	1		VMX1858	SPACER	5	
1C5	74F32SJ	IC	1		VJF1296	LCD HOLDER	1	
1C6	MC74HCO4AF	IC	_1					
1C7	MC74HC32AF	IC	1					
1C8	UPD71055GB	10	1		VEP80A09A	EJECT C. B. A.	1	(RTL)
1C9	MC74HC4538A	10	1		T			
1C10	MG34051M	10	1		1			,
1011	UPD16310GF	10	1	P5	VJP1243T	CONNECTOR (MALE) 3P	1	
1012	NJM78L09UA	10	1		1			
1013	NJM79L09UA	10	1	SW1	VSP1005	SWITCH	1	
1014, 15	NJM4580ED	10	2		1			
					1			
182	VJS2336A032	CONNECTOR (FEMALE)	1		VEP80A10A	HEAD PHONE C. B. A.	1	(RTL)
		,	ᅴ		1		ı.	
L1	VLP0133	COIL	7		†		_	
	1210100	0012		FL1, L2	VLF1356	FILTER	2	
P1 .	VJP1243T	CONNECTOR (MALE) 3P			1000	176761		
	VJP3095	CONNECTOR (MALE)	- 1	101	NJM4556D	IC	1	
P2 .			-;		1101143300	10		
P3	VJP3088	CONNECTOR (MALE)			V I 10070	IANY	- 1	
P4	VJP3091	CONNECTOR (MALE)		J1	VJJ0378	JACK		
						ACMIENTOR (MALE)		
Q1-Q5	2SD601A-R	TRANSISTOR	5	P1	VJP3076	CONNECTOR (MALE)		
Q6, Q7	2SC1815Y	TRANSISTOR	2					
Q8	2SG3074Y	TRANSISTOR	_1	Q1, Q2	2SD1330-S	TRANSISTOR	2	
QR1-R3	UN2214	TRANSISTOR-RESISTOR	3	R1, R2		C. RESISTOR 1/4W 1K	_ 2	
			_	R3, R4		C. RESISTOR CH 1/2W 15	_2	
R1		M. RESISTOR CH 1/10W 2.2K	1	R5, R6	ERDS2TJ102	C. RESISTOR 1/4W 1K	_2	
R8-15	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	8					
R16	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	VR1	EVUNGA040A14	V. RESISTOR 10K	1	
R17	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	-1					
R18-25		M. RESISTOR CH 1/10W 4.7K	8			MISCELLANEOUS		
R26, 27	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2					
R28			1		VMP5241	FRONT JACK ANGLE	1	
R29, 30	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2		XTV3+6F	SCREW	1	
R31	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1		VMP5137	H. P. GND ANGLE	1	
R32, 33		M. RESISTOR CH 1/10W 22K	2				_	1
R34		M. RESISTOR CH 1/10W 220	1		T			l
R35, 36		M. RESISTOR CH 1/10W 22K	2		VEP80991A	AC HEAD IF C.B.A.	1	(RTL)
R37			1		1			
R38, 39		M. RESISTOR CH 1/10W 22K	2	<b> </b>				
R40		M. RESISTOR CH 1/10W 220	1	P1	VJP2278	CONNECTOR (MALE)	1	
R44		M. RESISTOR CH 1/10W 10K	귀	P2	VJP1881T	CONNECTOR (MALE)	<u> </u>	
R49, 50		M. RESISTOR CH 1/10W 47K	2				<u> </u>	<u> </u>
R51, 52		M. RESISTOR CH 1/10W 4.7K	2		<del> </del>		-	
R53			-		<del> </del>		-	
		M. RESISTOR CH 1/10W 10K	- 11	<b> </b>	<del> </del>			<b> </b>
R54			-;		<del> </del>			
R55	ERDS2TJ222		2	[	-			
			2		1			
R58		C. RESISTOR 1/4W 22	-#		ļ			
R59		M. RESISTOR CH 1/8W 10K	_11		ļ			
			2					
			1					
			2					
R67		M. RESISTOR CH 1/10W 2.2K	_1				_[	
R68, 69	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2					
R72	ERDS2T0		1					
			7				_	
SW2-W8	VSP1005	SWITCH	7					
			-					<del> </del>
	l							

## **Servicing Fixtures & Tools**

ITEM	PART No.	JIG & EQUIPMENT	Pcs	Remarks
Jig Tool	VFK1145	Back Tension Meter (T2-M30-P)	1	
	VFK1149	Post Driver	1	
	VFK71	Dial Torque Gauge (150g)	1	
	VFK1191	Dial Torque Gauge (45g)	1	
	VFK1152	Dial Torque Gauge Adaptor	1	
	VFK0357	Eccentric Screwdriver (1.5)	1	
	VFK1154	Post Height Fixture	1	
	VFK1153	Mech. Neutral Plate (Post)	1	
*	VFK1157	Mech. Neutral Plate (Cassette)	1	
	VFK1155	Neutral Position Tool (Gold)	1	
	VFK1156	Neutral Position Tool (Black)	1	
	VFK1208	Neutral Position Tool (Black With Hole)	1	
	VFK1150	Nut Driver (5.5mm)	1	
	VFK1151	Nut Driver (2.5mm)	1	
·	VFK1188	Dial Tension Gauge (30g)	1	
	VFK0948	Check Light	1	
	VFK0749	Froiral Grease (for plastic)	1	
•	MOR265	Morlytone Grease (for metal)	1	
	VFK1146	Phillips Driver (Fine)(00–75)	1	
	VFK1147	Phillips Driver (Fine)(0–100)	1	
	VFK1148	Hex. Driver (1.5)		
	VFK1178	Hex. Driver (0.89)	1	
	VFK1179	Hex. Driver (0.71)	1	
	VFK1190	Hex. Wrench	1	
	VFK1209	Torque Driver (0.4–3Kg)	1	,
	VFK0912	Post Axis Driver (1.5mm)	1	
	DAQ-12	A/D Board	1	Purchase locally
-	VFM3680KM	Alignment Tape (No. 1)	1	
	VFM3681KM	Alignment Tape (No. 2)	1	
	VFM3682KM	Alignment Tape (No. 3)	1	
	AJ-CL12MP	Cleaning Tape	1	SALES
	VFK1159	LISTA Software	1	
	VFK1186	LISTA CABLE	1	
	VFK1192	F EXTENSION BOARD	1	
	VFK1193	H EXTENSION BOARD	1	
	VFK0369	Tweezers	1	
	VFK0371	Radio Prier	1	
	VFK0372	Cutter Prier	1	
	VFK0338	Trimmer Adjustment Driver	1	
	VFK0337	Phillips Driver	1	
	VFM3000EDS	Alignment Tape (DV LISTA)	1	
		Alignment Tape (DV Color Bar)	1	

# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

## **Subject: Reduction of Noise from Cylinder Circuit**

se use this supplement to	gether with the Service Manu	Jai as Tollows:	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	23	VSD9606M502A/B	J6TRB0163
AJ-D650E/EN	. 1.	VSD9612MJ01A/B	K6TRA0001
AJ-D640E/EN	1	VSD9612MJ01A/B	K6TRA0001

Board: MECHA I/F (VEP82214A)

Symptom: High Error Rate may occur.

Cause : Noise from the Cylinder circuit may jump into the RF circuit. It results in High Error Rate.

Remedy: To improve the Error Rate, the following modification is performed.

1). Add a capacitor C200 (50V/100pF) between pins #2 and #26 of P1 on the foil side as shown in figures 1 and 2.

2). Add a capacitor C201 (50V/100pF) between pins #1 and #27 of P1 on the foil side as shown in figures 1 and 2.

3). Add a capacitor C202 (50V/100pF) between pin #28 of P1 and land of GND on the foil side as shown in figures 1 and 2.

Part Number											
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks						
C200 ~ 02	***	ECCF1H101JC	C. CAPACITOR 50V 100P	0→3							

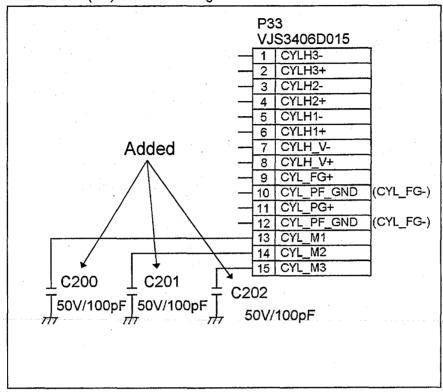


Fig. 1 Page 2-190 (C-7)

### MECHA I/F P.C.Board (VEP82214A)

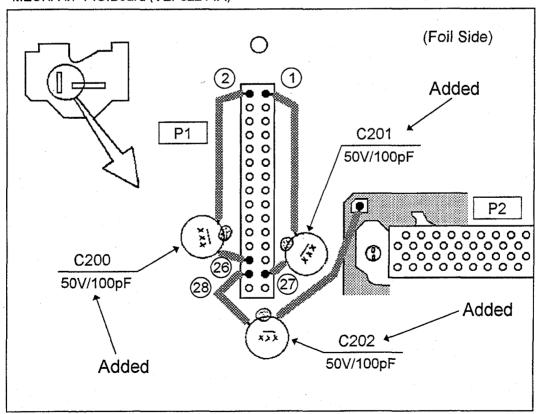


Fig. 2 Page 3-18 (D-2~3)

# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

Subject: Improvement of PLL Unlock under Low Temperature (-10°C)

Please use this supplement together with the Service Manual as follows :									
Model No.	Bulletin No.	Order No.	Effective from						
AJ-D750E/EN	27	VSD9606M502A/B	A7TRB0001						
AJ-D650E/EN	2	VSD9612MJ01A/B	A7TRA0001						
AJ-D640E/EN	2	VSD9612MJ01A/B	A7TRA0001						

Board : EQ (H3:VEP85048A)

Symptom: PLL may not be locked under low temperature. (-10°C)

Cause : Output voltage may oscillate due to the lack of input capacity of 3 terminals regulator.

Remedy: To prevent the PLL unlock, the following modification is performed.

1). Add a capacitor C5995 ( $16V/47\mu F$ ) between terminals I (plus side) and G (minus side) of IC5956 on the component side as shown in figures 1 and 2.

2). Add a capacitor C5996 ( $16V/47\mu F$ ) between terminals G (plus side) and I (minus side) of IC5958 on the component side as shown in figures 3 and 4.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
C5995, 56		ECEA1CGE470	E. CAPACITOR 16V 47U	0→2	

## EQ (H3 9/9) Schematic Diagram

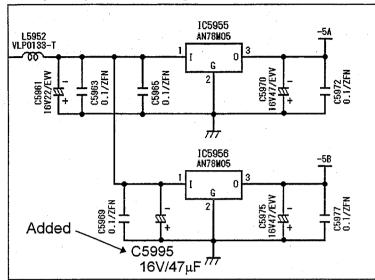


Fig. 1 Page 2-173 (E-5) - AJ-D750 Page 2-135 (B-5) - AJ-D640/D650

#### EQ P.C.Board (VEP85048A)

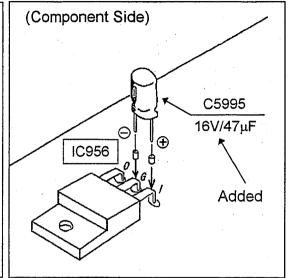


Fig. 2 Page 3-12 (A-2) - AJ-D750 Page 3-10 (A-2) - AJ-D640/D650

#### EQ (H3 9/9) Schematic Diagram

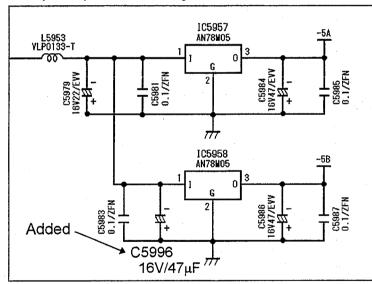


Fig. 3 Page 2-173 (E-7) - AJ-D750 Page 2-135 (B-7) - AJ-D640/D650

### EQ P.C.Board (VEP85048A)

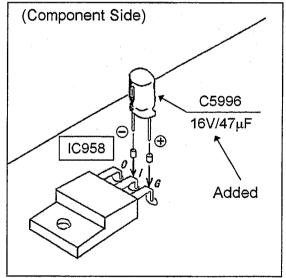
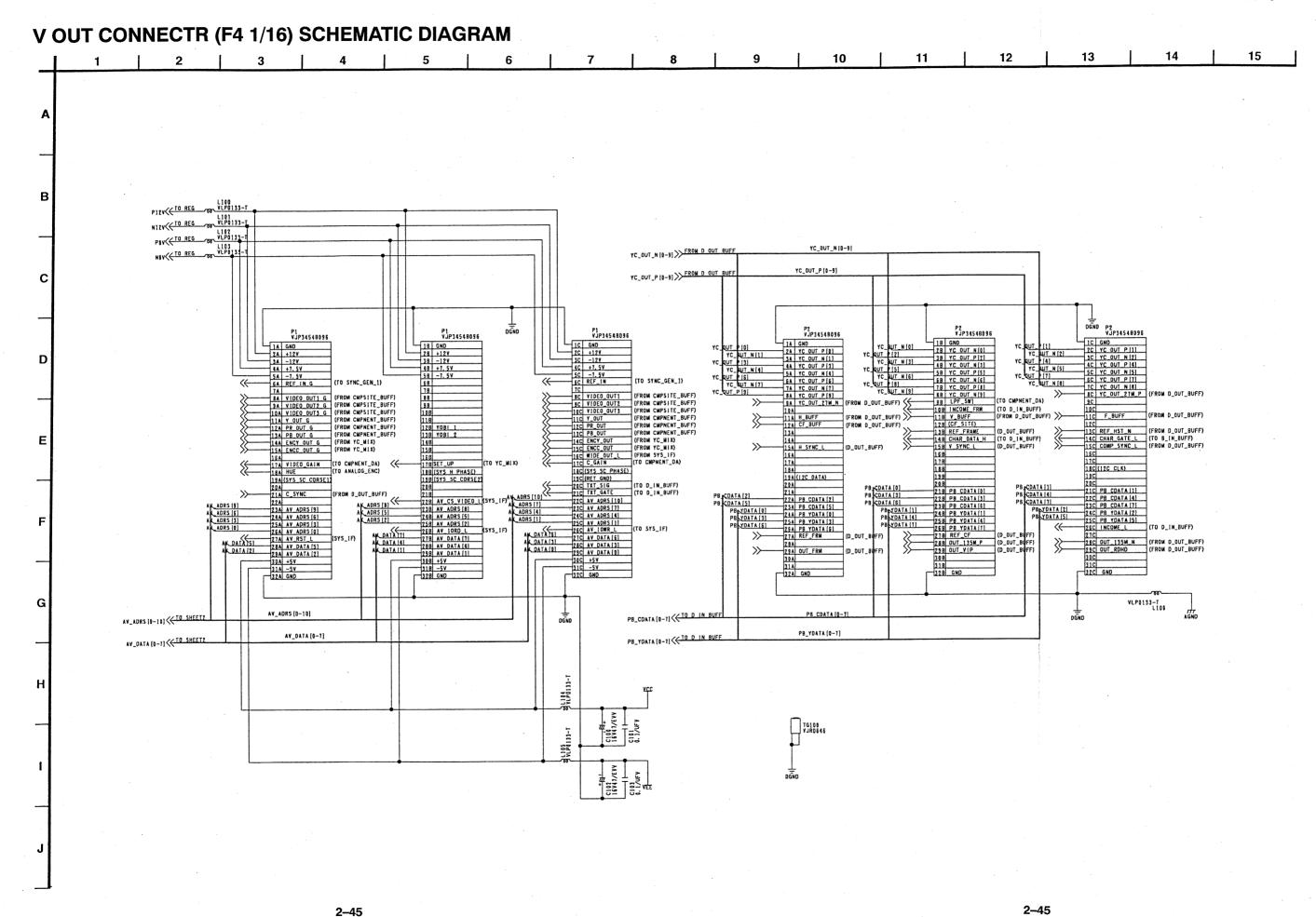


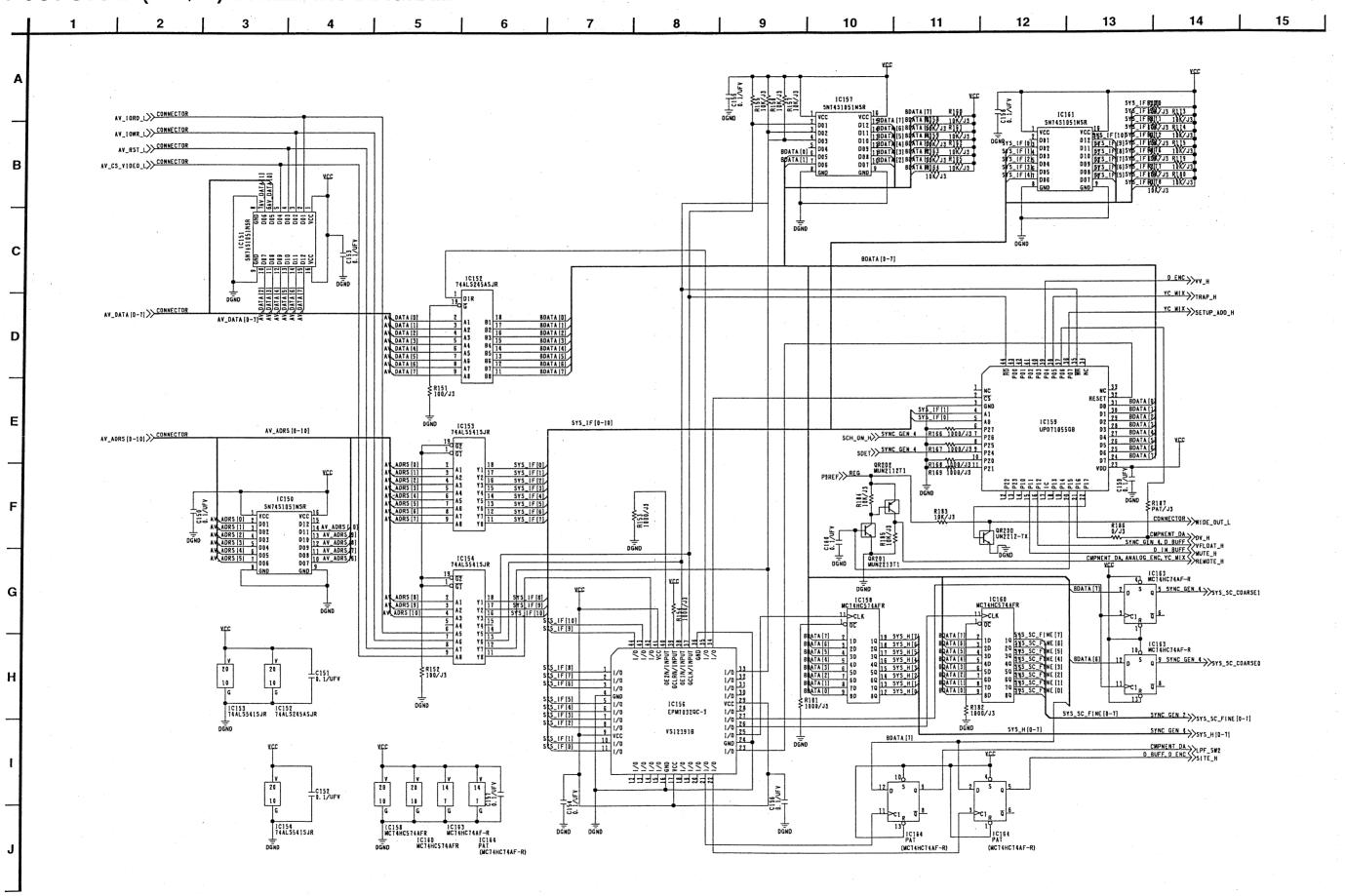
Fig. 4 Page 3-12 (A-3) - AJ-D750 Page 3-10 (A-3) - AJ-D640/D650

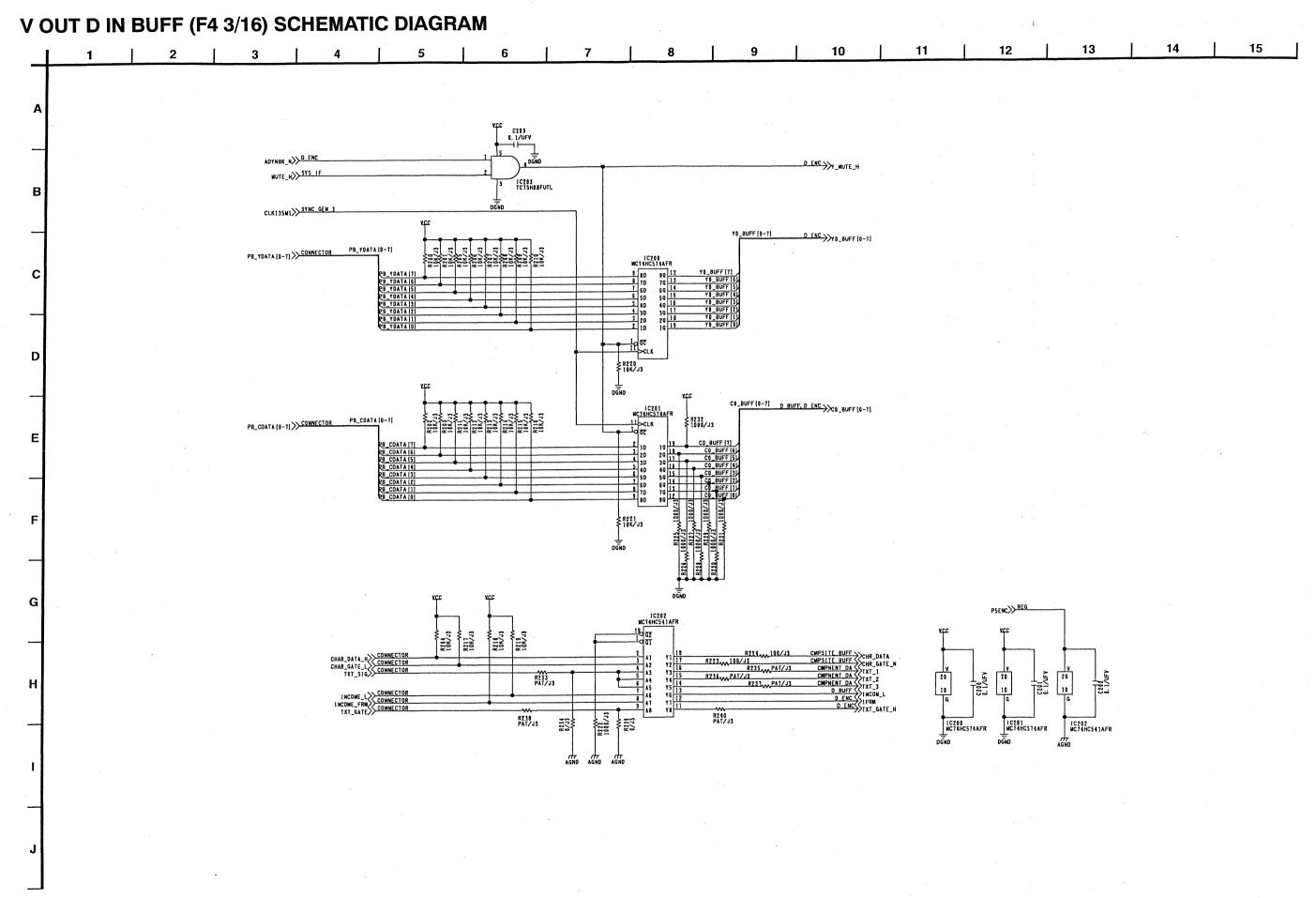


\ )E-V18115 / DRUCK63

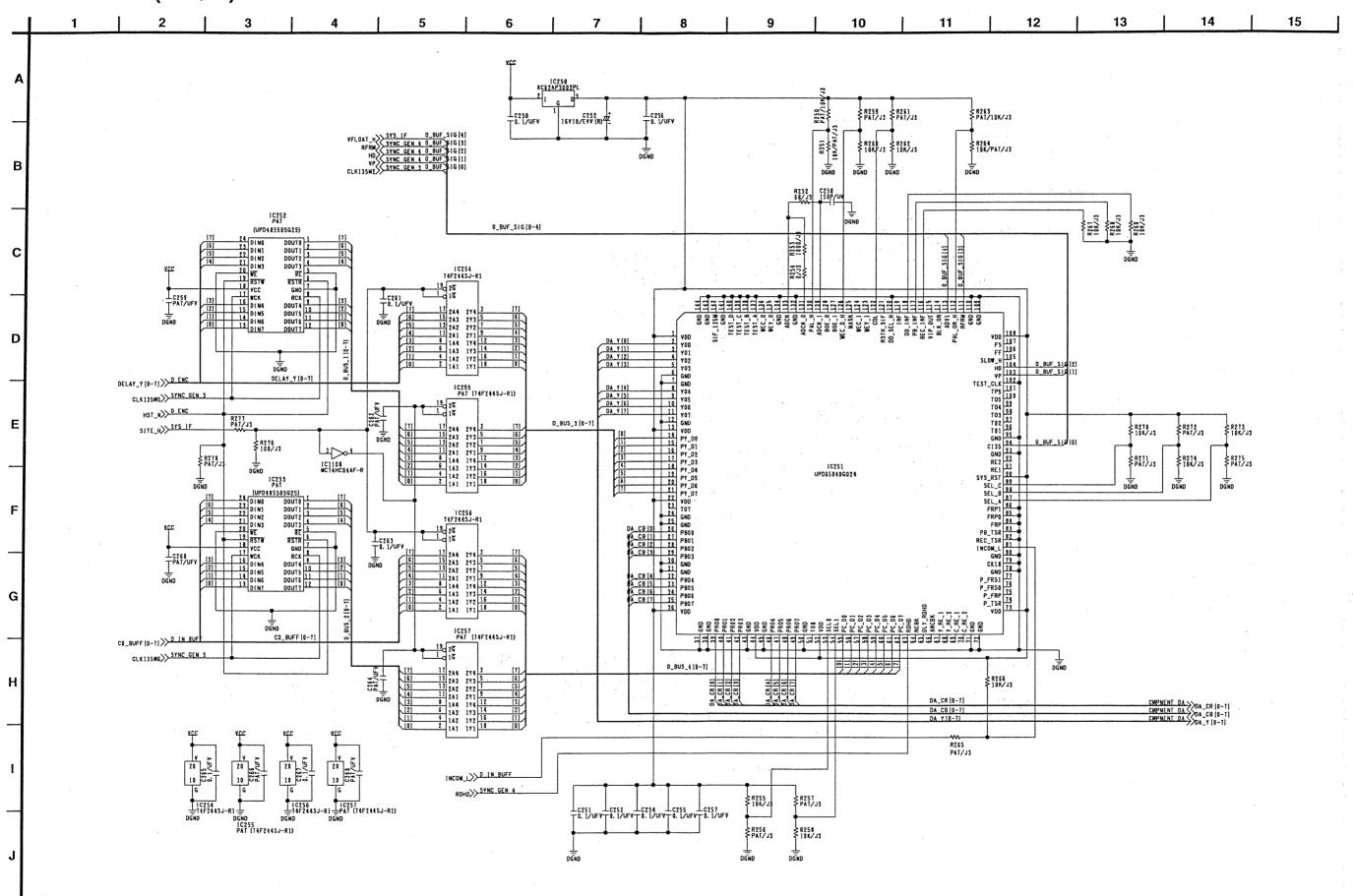
## V OUT SYS IF (F4 2/16) SCHEMATIC DIAGRAM

2-46





## V OUT D BUFF (F4 4/16) SCHEMATIC DIAGRAM



2-49

# V OUT CMPNENT DA (F4 5/16) SCHEMATIC DIAGRAM

#### **V OUT CMPNENT BUFF (F4 6/16) SCHEMATIC DIAGRAM** 14 15 13 9 10 11 12 PSENC>> REG ] C404 T0. 1/UFY R408 17 Q401 258709A-QRTX CONNECTOR >> Y\_OUT Y CHPNENT DA CONNECTOR >> Y\_OUT\_G ₹ R409 ₹ 7500/RE ₹8414 ₹2200/J3 N9ENC>> REG ₹R421 \$2200/J3 R430 410/J3 Q4D6 258709A-QRTX 0409 250601A-QRTX CONNECTOR >>> PR\_OUT CR>> CUPNENT\_DA R423 270/RE CONNECTOR >> PR\_OUT\_G R431 2200/J3 SW400 MII V550312/PAT BETA C413 0. 1/UFV AGND ₹R425 2200/J3 R432 410/J3 Q407 258709A-QRTX 0410 250601A-QRTX 25 R426 120/RE CONNECTOR >>PB\_OUT CB CHPNENT DA SYNC\_LEV R424 270/RE CONNECTOR >> PB\_OUT\_G ₹8433 \$2200/J3 ₹8412 ₹3300/J3 Q405 25D60]A-QRTX R418 220/RE D408 MA152K-TX 5 YC\_MIX >>VIDEO\_SYNC R406 220/J3 Q402 25B703A-QRTX 0408 250601A-QRTX Q403 25B709A-QRTX OUT\_CS\_N>> SYNC\_GEN\_4 Q400 25C2404-CDTX \$4100/J3 R427 220/RE ₹R401 \$220/J3

C482 T0. 1/UFV

NSENC>> REG

R402 ₹15K/J3

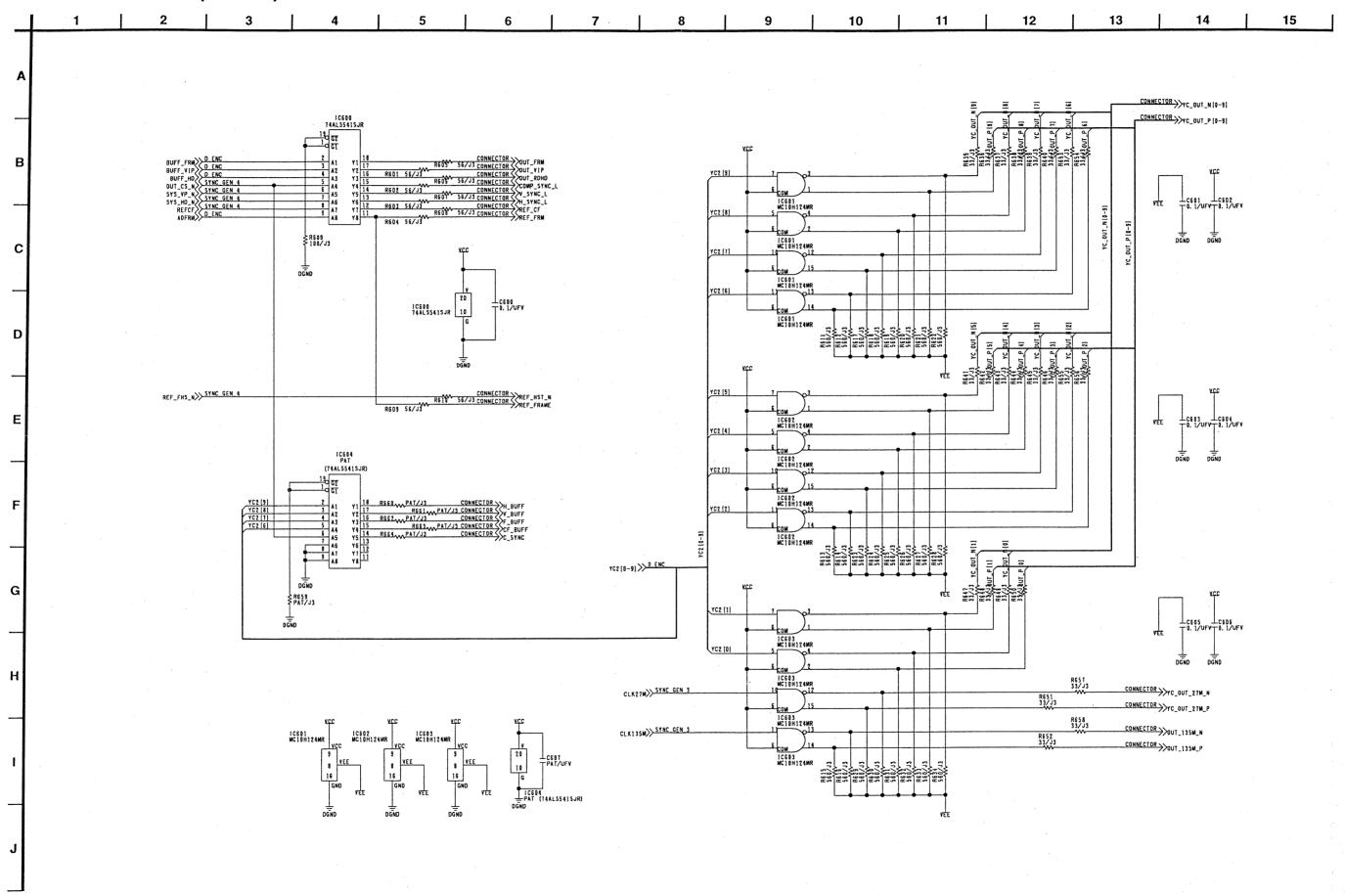
₹R420 120/RE

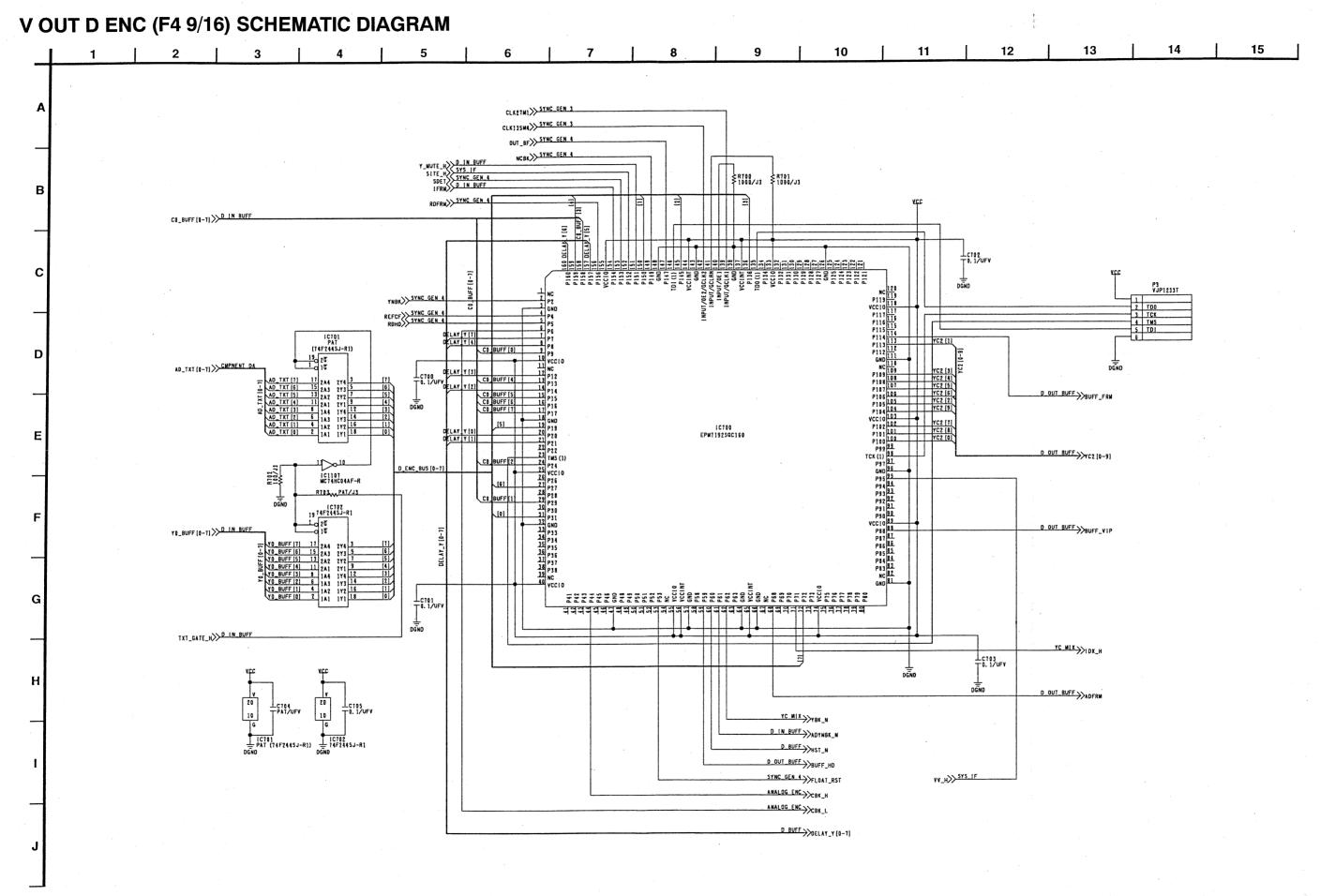
10.1/UFV

#### **VOUT ANALOG ENC (F47/16) SCHEMATIC DIAGRAM** 10 11 12 13 15 DAO\_CR>> CMPNENT\_DA C510 16V10/EVV (R) 0500 MW125X-1X YC\_MIX >>ENC\_C MA152K-TX D503 ENC\_PR\_LEV ≶ R571 | 300/RE DAO\_CB>> CMPNENT\_DA ENC\_PB\_LEV 35 R514 I 2 R531 TZZ PB\_BAL PR\_BAL BURST\_LEV R544 2200/J3 10.1/UFV R545 2200/J3 Q508 2SD601A-QF C504 R500 0.1/UFV 820/J3 RSC>> SYNC GEN 4 R532 {1000/33 P9ENC>> REG C505 16V10/EVV (R) C506 0.1/UFV C529 82P/UV R534 1000/J3 C524 R536 0. 1/UFV \$1500/J3 R552 1000/PAT/J3 REMOTE\_H>> SYS\_IF R562 1000/PAT/J3 R509 8 39K/J3 1C500 NJM082BM-T1 HUE CONNECTOR 13 0 IC500 NJM082BM-T1 1C301 NJM084M-T1 CBK\_H>> D\_ENC PALP SYNC GEN 4 QUAD\_PHASE CS34 CS34 QS65 82P/UV 25522295-BCTX CS4U PALSE CS4U PATOL 1/UFV PATOL 1/UFV AGNO SSW 1500/J3 1C502 MC74HC4053FR 0501 MA335-RT 1 25C2295-BCTX TH500 8521 ERT02FHL1025 1500/J3 ERT02FHL1025 7 R520 R522 1000/J3 33/J3 R52 R542 180/10/J3 CW VR507 C576 T0. 1/UFV

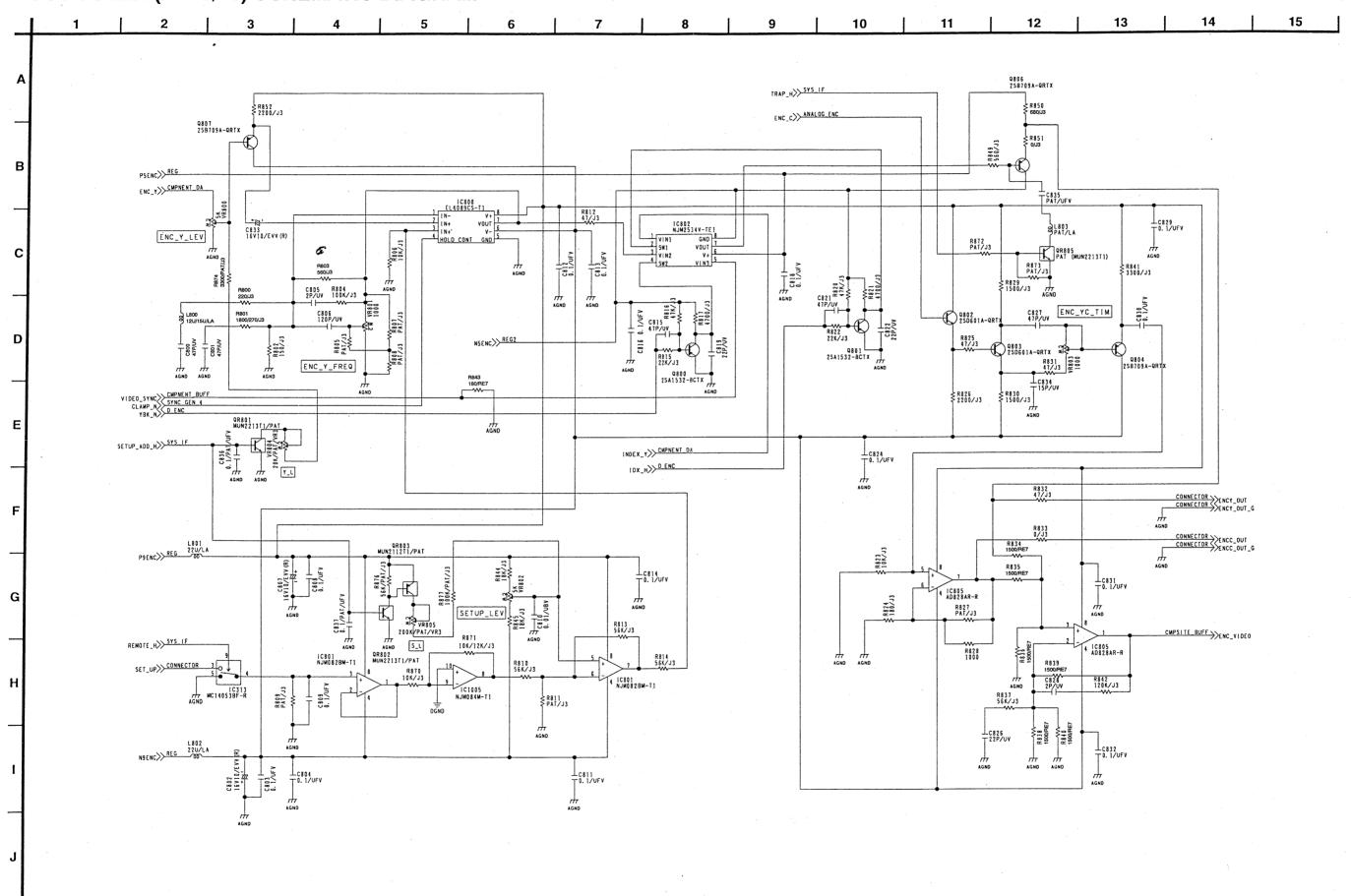
## V OUT D OUT BUFF (F4 8/16) SCHEMATIC DIAGRAM

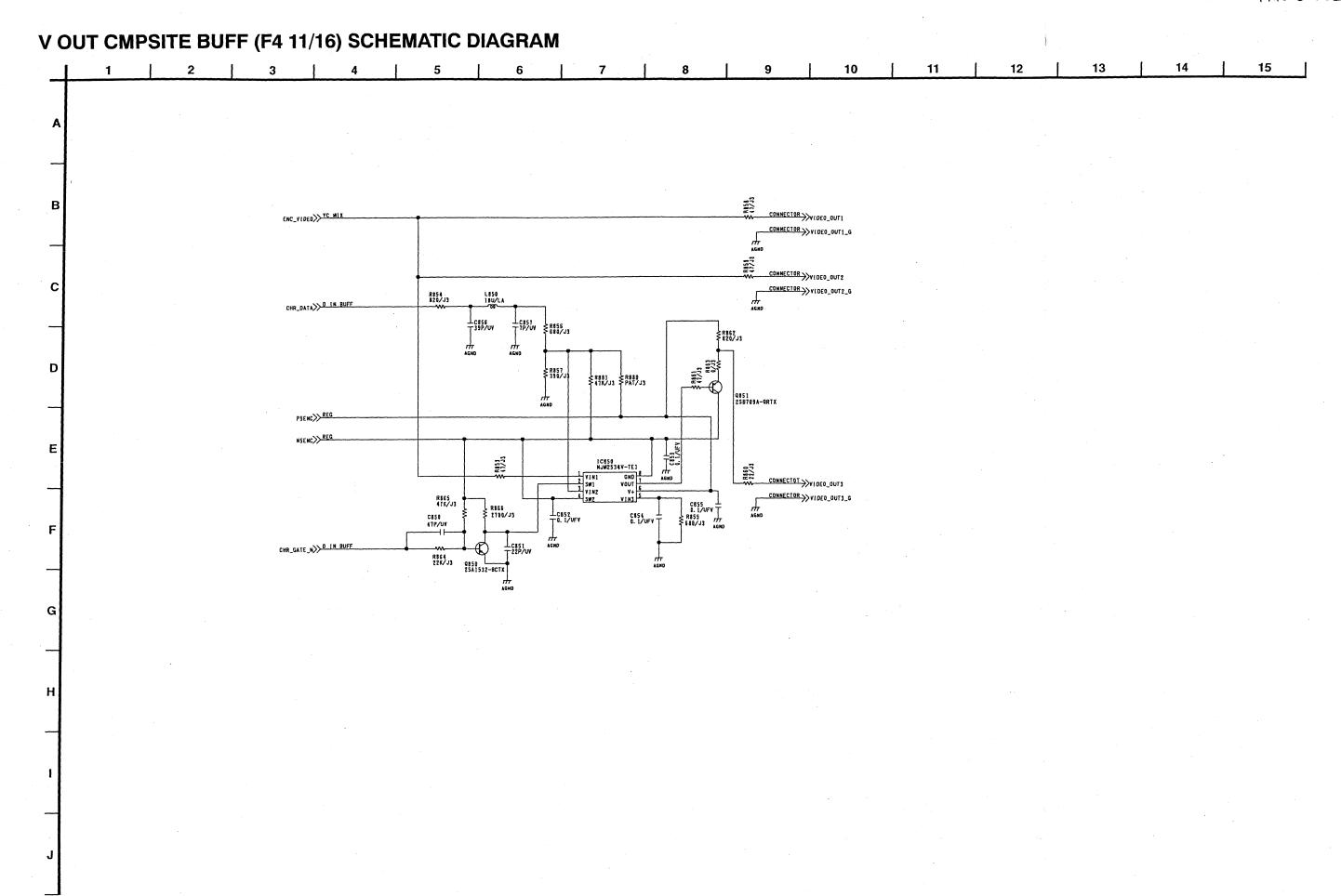
2-52





## V OUT YC MIX (F4 10/16) SCHEMATIC DIAGRAM



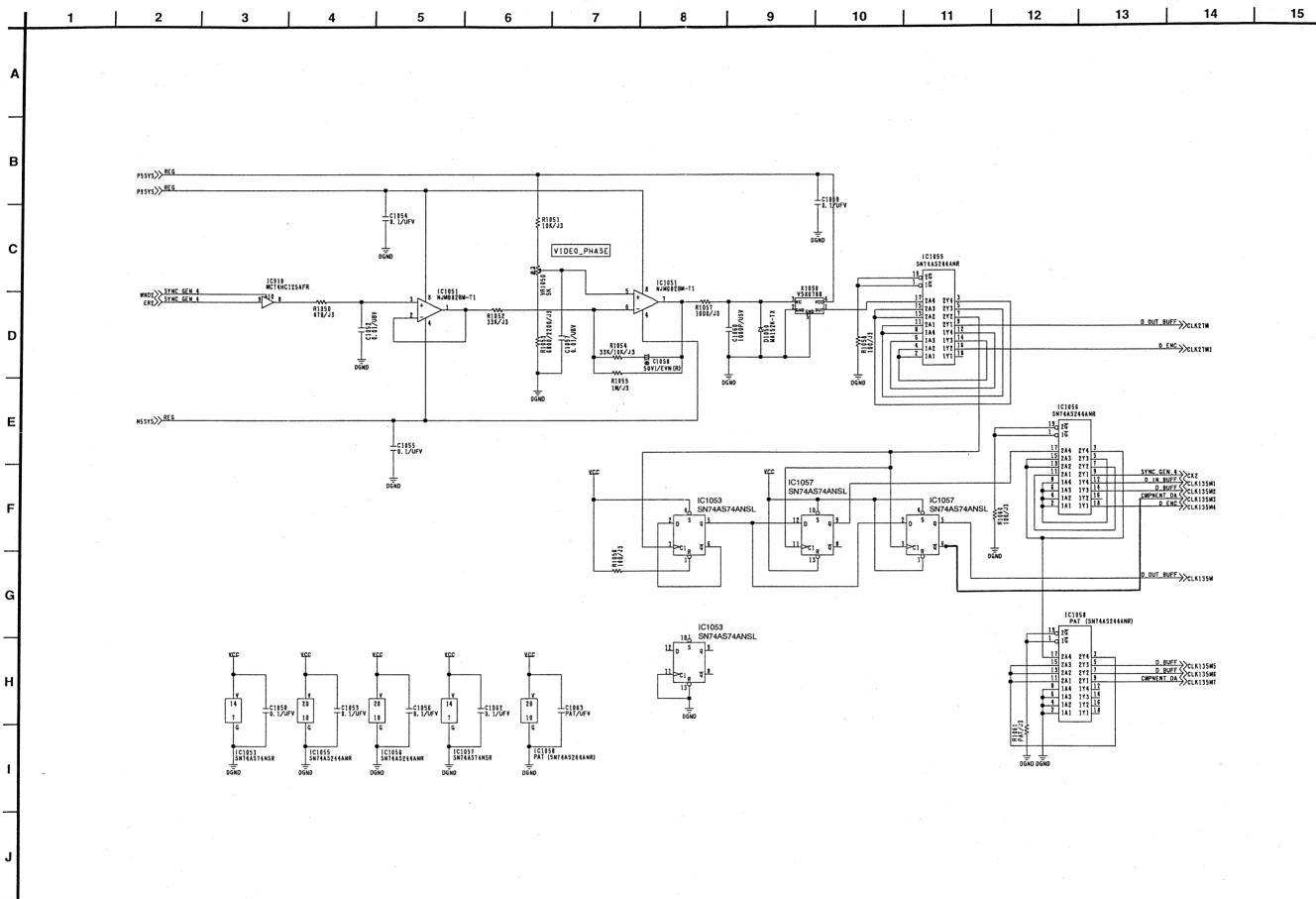


#### V OUT SYNC GEN 1 (F4 12/16) SCHEMATIC DIAGRAM 12 13 14 15 10 11 S/H PULSE SHP [C904 | C908 | C909 | C915 | C910 | MC74HC04AF-R MM74HC221AML MM74HC221AML SN74LS221NSR MC74HC125AFR RSY TP905 VJR0646 TP903 VJR0646 SYNC GEN 2 >> S\_HP 11 1C908 47U/LA MM74HC271AML 1C908 MM74HC221AMI -0911 -33P/UV 10902 ± NE521D-T DGN SYNC GEN 4 DET1 REF\_IN>> CONNECTOR REF\_IN\_G>> CONNECTOR SYNC GEN 4 >> DET2 T15P/PAT/UV IC904 MCT4HC04AF-R SYNC GEN 4 DETS 10944 T15P/PAT/UV IC904 MC74HC04AF-R IC904 MC74HCD4AF-R IC909 MM74HC221AML RHS SYNC GEN 4 SYNC GEN 4 1C904 MC74HC04AF-R VD SYNC GEN 4 PSREF >> REG SCH PHASE ₹8934 ₹1000/J3 1C913 NJM082BM-1 O 4 SYNC GEN 4 >>FS3 R929 41K/J3 VX03>> SYNC GEN 4 1C923 TC75H00FUTL R928 1200/J3 80 TG901 VJR0646 NSREF >> REG 10318 1C318 1C318 MC74HC125AFR NUMD328M-T ₹8935 1000/J3 R920 R923 4 41K/J3 22K/3300/J3 22K/3300/J3 TPAT/UV 3 1C925

NSSYS>> REG

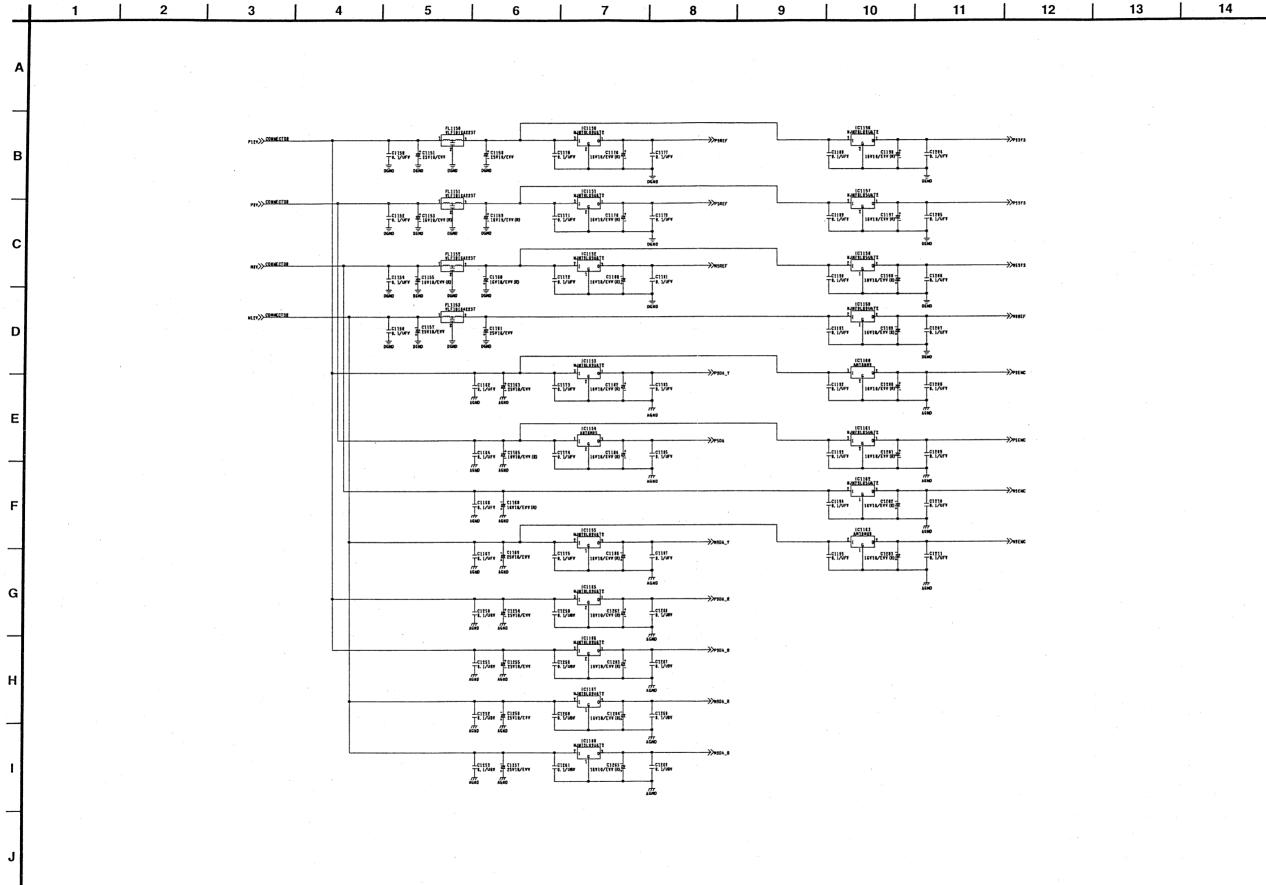
## V OUT SYNC GEN 2 (F4 13/16) SCHEMATIC DIAGRAM 11 12 RBF SYNC GEN 1 S\_HP SYNC GEN 1 SDET 1C1003 NJM082BM-F1 ₹1030 1000/3 1C902 NE521D-T SYNC GEN 4 VX01)>> SYNC GEN 4 - 770 R1013 C1019 22K/J3 25V3R3/EVN (R) 1C1015 TC7SH00FUTL FS PHASE NSREF>> REG P5REF>> REG VCC 1C1002 16 MC14053BF-R 1C910 MC74HC125AFR L1004 47U/LA R1002 10K/J3 IC1000 NE521D-T R1003 1000/J3 1C915 SN74LS221NSR R1004 0/PAT/J3 LALIO SYNC GEN 4 SYNC GEN 4 >>LALI SYNC GEN 4 >> SCOL SYS\_SC\_OFF IC1005 NJM084M-T1 POREF >> REG R1021 1000/J3 SYS\_SC\_FINE [0-7] 1C1005 NJM084M-T1 R1012 R1016 PAT/J3 56K/J3 R1010 1500/J3 C1018 0.1/UFV L1003 22U/LA

# V OUT SYNC GEN 3 (F4 14/16) SCHEMATIC DIAGRAM



#### **VOUT SYNC GEN 4 (F4 15/16) SCHEMATIC DIAGRAM** 13 14 15 11 12 10 1C1107 MC74HC04AF-R13 D\_OUT\_BUFF >> SYS\_VP\_N SYS\_SC\_COARSED VFLOAT\_H>> SYS\_IF RDFRM D\_BUFF, D\_ENC D\_BUFF D BUFF HD D BUFF VP D ENC, D OUT BUFF REFCF FLOAT\_RST>>> D\_ENC В BF\_PHASE CK1 SYNC GEN 15G BUS 11 CK2 SYNC GEN 35G BUS 11 FS SYNC GEN 25G BUS 1 FS SYNC GEN 1 FS SYNC GEN 1 FS SYNC GEN 1 FS SYNC GEN 1 FS SYN 51R51 51 F53 SYNC GEN 15G BUS DET12 SYNC GEN 15G BUS DET2 SYNC GEN 15G BUS DET3 SYNC GEN 15G BUS SYNC GEN 15G BUS SYNC GEN 15G BUS SYNC GEN 15G BUS SYNC GEN 5G BUS SYNC GEN 5G BUS SYNC GEN 5G BUS SYNC GEN 5G BUS LALL R1124 5600/6800/J3 RFCF R1135 120K/PAT/J3 TP1100 VJR0646 IC1108 IC1115 DGND MC74HC04AF-R SN74LS221NSR SG BUS [1-34] IC1108 MC74HC04AF-R 12 1 2 ANALOG ENC NOB R1120 PAT/0/J 101106 14 | 15 | CX RX UPD65650J203 H PHASE R1103 SG\_BUS [17] 12 3 0 ENC OUT\_BF 1000P/680P/USY SYNC GEN 2 >>LALIO D ENC. SYS IF, SYNC GEN 2 SYNC GEN 2 WSC SG\_BUS[10] SG\_BUS [22] ₹R1122 ₹100K/J3 IC1103 SN74LS221NSR SG\_BUS [20] 11 3 CMPNENT\_DANALOG\_ENC, YC\_MIX >>CLAMP\_N R1130 PAT/J3 BUS 1894 0.7847/J3 IC1114 MC74HC00AF-R # C1121 16V10/EVV (R) D ENC SYNC GEN 1 VD ANALOG ENC P9REF>> DGND BUS [28] BUS [29] SYS\_H 9 8 R1136 IC1108 R1000/J3 MC74HC04AF-R C1101 0. 1/UFV SG\_BUS [1-34] SYNC\_GEN\_1 >>RHS SYS\_H[0-1] > SYS\_IF VJR0646 9 8 D DUL 6... ICTIO7 MC14HCQ4AF-R SYNC GEN 1 WND1 SYNC GEN 3 WND2 SYNC GEN 3 WND2 SYNC GEN 1 VX03 SYNC GEN 2 VX05 SYNC GEN 2 VX01 SYNC GEN 2 VX01 IC1100 NJM084M-T1 VJR0646 TP1103 ≥ R1100 ≥ 5600/J3 R1101 10K/18K/J3 SYNC GEN 2 >STP2 IC1114 MC74HC00AF-R R1107 1500/J3 ≷R1111 ≷PAT/J3 R1112 56K/J3 □ € v 100/33 1C1114 MC74HC00AF-R 10 CMPNENT BUFF, D OUT BUFF >> OUT \_CS\_N IC1108 MC74HC04AF-R IC1108 MC74HC04AF-R C1 135 500 81192\*\*\* 51192Fv VJR0646 TP1104 CSI N9REF>> REG C1106 C1106 C1107 1C1103 SN74LS221NSR IC1107 MC74HC04AF-R 1C1116 SN74LS221NSR

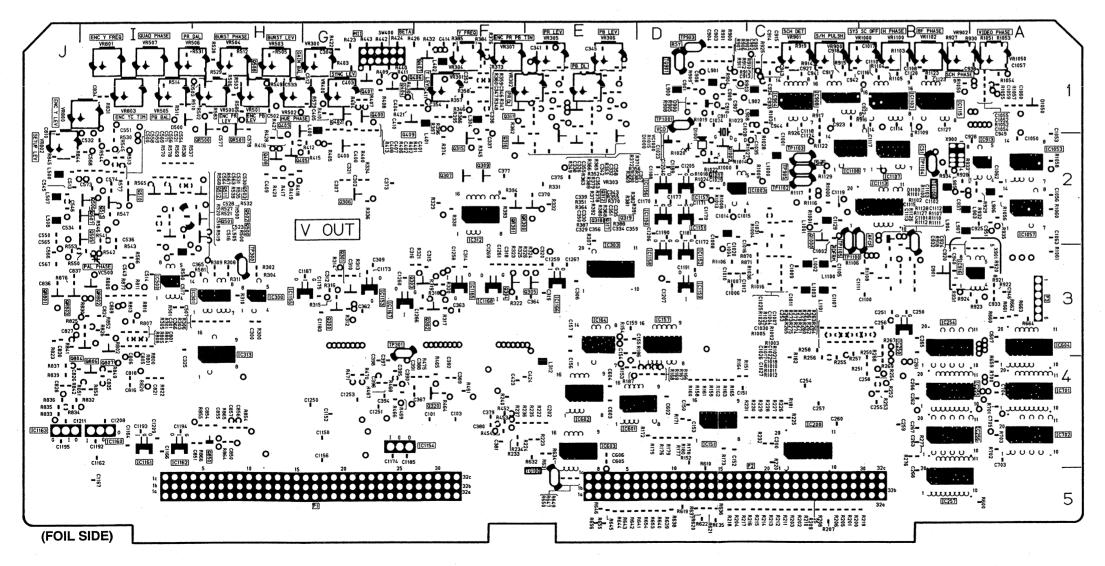
# V OUT REG (F4 16/16) SCHEMATIC DIAGRAM



15

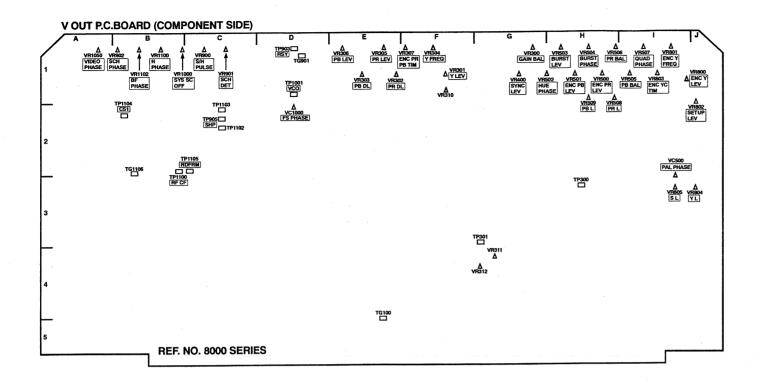
		2		3	4	5	6	7	8		9	10		11	12	<u>,                                     </u>	13	 14	15
					Ref. N	o. AJ-D640P/AJ-D650P	AJ-D640/AJ-D650	AJ-D640E/AJ-D650		Ref. N	o. AJ-D640f	P/AJ-D650P	AJ-D640/AJ-	D650 AJ-D640E/AJ-D	0650E Posit	ion			•
					C327	ECUV1H120JCV	<b>←</b>		C-F-1	R557				ERJ3GEYJ181V	/ C-I-	2			
					C331	ECUV1H120JCV	<b>←</b>		C-E-1	R558				ERJ3GEYJ561V	/ C-I-	-2			
					C338	ECUV1H100DCV			F-E-1	R562	ERJ3GEY	J102V	←		C-I-	2			
					C342	ECUV1H100DCV	<b>←</b>		F-E-1	R563				ERJ3GEYJ102V	/ C-I-	2			
					C405	ECUV1H180JCV	←	ECUV1H330JCV	F-G-1	R564				ERJ3GEYJ561V	/ C-I-	3			
ŀ					C407	ECUV1H121JCV	<b>←</b>	ECUV1H271JCV	F-G-1	R566				ERJ3GEYJ103\	/ F-I-	3			
					C408	ECUV1H120JCV	<b>←</b>		F-G-1	R567				ERJ3GEYJ562\	/ F-I-	2			
					C540			ECUV1E104ZFV	C-J-2	R568				ERJ3GEYJ562V					
					C543			ECUV1E104ZFV	F-I-3	R569				ERJ3GEYJ223\		2			
					C544			ECUV1H120JCV	C-I-3	R570				ERJ3GEYJ223\		2			
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					C546	ECUV1H271JCV	←	ECUV1H221JCV	F-J-2	R576				ERJ3GEYJ470\	/ C-I-	2			
					C547	ECUV1H220JCV	<b>←</b>		C-J-2	R578				ERJ3GEYJ223\	/ F-I-	2			
					C548	ECUV1H680JCV	←	ECUV1H270JCV	C-J-2	R583	ERJ3GEY	J152V			F-H	-1			
					C549	ECUV1H070DCV	<b>←</b>		C-J-2	R585	ERJ3GEY				F-H	-1			
					C550	ECUV1H121JCV	<b>←</b>	ECUV1H101JCV	F-J-2	R801	ERJ3GEY		<b>←</b>	ERJ3GEYJ271V	/ F-I-	3			
					C563			ECUV1E104ZFV	F-I-2	R871	ERJ3GEY	J103V	←	ERJ3GEYJ123V					
					C564			ECUV1E104ZFV	F-I-2	R874	ERJ3GEY				C-J	-3			
					C565			ECUV1H100DCV	F-J-2	R876	ERJ3GEY	J563V			F-J-	.3			
					C566	ECUV1H100DCV	<b></b>	ECUV1H470JCV	F-J-3	R877	ERJ3GEY	J104V			F-I-				
					C567			ECUV1H330JCV	F-J-3	R914	ERJ3GEY	J223V	<b>←</b>	ERJ3GEYJ333V	/ F-C	-1			
					C577	ECUV1E104ZFV	]		F-H-1	R923	ERJ3GEY	J223V	←-	ERJ3GEYJ332V	/ F-A	-3			
					C578	ECUV1E104ZFV			F-H-1	R1004	ERJ3GEY	J0R00V	<b>←</b>		F-C	-3			
					C836	ECUV1E104ZFV			F-J-3	R1005		1		ERJ3GEYJ0R00	DV F-C	-3			
					C837	ECUV1E104ZFV			F-J-3	R1053	ERJ3GEY	J682V	<b>←</b>	ERJ3GEYJ222V	/ F-A	-1			
					C943	ECUV1H150JCV	←.		F-C-1	R1054	ERJ3GEY	J333V	<b>←</b>	ERJ3GEYJ103V	/ F-A	-1			
					C944	ECUV1H150JCV	<b>←</b>		F-C-1	R1101	<b>ERJ3GEY</b>	J103V	<b>—</b>	ERJ3GEYJ183V	/ F-B	-3			
					C1110	ECUV1H102JV	<b>←</b>	ECUV1H681JV	F-B-1	R1103	ERJ3GEY	J103V	<b>—</b>	ERJ3GEYJ332V	/ F-B	-1			
					C1127	ECUV1H681JV	<b>←</b>	ECUV1H471JCV	F-B-1	R1105	ERJ3GEY	J682V	<del></del>	ERJ3GEYJ472V	/ F-B	-1			
					L400	VLQ0163J470	<b>←</b>	VLQ0163J101	F-G-1	R1113	ERJ3GEY	J0R00V	<del></del>		C-B				
					L507	VLQ0163J270	-	VLQ0163J150	F-J-2	R1116			<del>-</del>		F-C				
					L508	VLQ0163J6R8	<del>                                     </del>	VLQ0163J5R6	F-J-2	R1117			<b>←</b>		F-C				
					L510	VLQ0163J5R6	<u> </u>	VLQ0163J6R8	C-J-3	R1120				ERJ3GEYJ0R00					
					L800	VLQ0163J120	-	VLQ0163J150	C-I-3	R1121	ERJ3GEY	JOROOV	-		C-B				
					L902	VLQ0163J680	<b>←</b>	VLQ0163J390	F-C-1	R1123			<b>←</b>	ERJ3GEYJ222V					
					Q509			XN6501-TX	C-I-3	R1124			<b>←</b>	ERJ3GEYJ682V					
					Q511			2SC2295-BCTX	F-I-2	R1135			<del>-</del>		C-B				
	•				Q512			2SC2295-BCTX	F-I-2	X900	VSX0338	-	-	VSX0270	C-A		•		
					Q514	<del></del>	<del></del>	2SB709A-QRTX	C-I-2	X1000				VSX0363	C-D				
					R250		<u> </u>	ERJ3GEYJ103V	F-B-4	QR500		T1		100000	F-H				
					R251	ERJ3GEYJ103V	<del></del>	ENGOGETOTOGY	F-B-4	QR501			<u></u>		F-H				
					R263		+	ERJ3GEYJ103V	F-B-3	QR801					F-J-				
					R264	ERJ3GEYJ103V	<del>                                     </del>		F-B-3	QR802					F-I-				
					R352	ERJ3GEYJ152V	<del>-</del>	ERJ3GEYJ102V	F-E-1	QR803					F-J-				
					R356	ERJ3GEYJ152V	<del>-</del>	ERJ3GEYJ102V	F-E-1	SW400			<del></del>		C-G				
					R506	LI 1000L TO 1024	<del> </del>	ERJ3GEYJ470V	F-H-1	VC500				ECV1ZW30X53					
					R512	ERJ3GEYJ0R00V	←	L11000E104/UV	F-H-1	VR504				EVMEGSA00B1					
					R526	ERJ3GEYJ394V	+ ←	ERJ3GEYJ124V	C-I-2	VR508		3203T		EVIVIEGOAUUDI	C-H				
					R542	ERJ3GEYJ181V	<b>←</b>	ERJ3GEYJ100V	F-I-2	VR509					C-H				
					R543	ERJ3GEYJ152V	<del>-</del>	ERJ3GEYJ100V	F-I-2	VR804			·		C-J-				
					R551	L11000E10102V	<del>                                     </del>	ERJ3GEYJ102V	C-I-2	VR805					C-1-				
					R552	ERJ3GEYJ102V	<b>←</b>	LOUGETUIUZV	C-I-2 C-I-2	VR900			<b>←</b>	EVMEGSA00B2					
						ERJ3GEYJ0R00V	<del></del>	ļ											
		•			R553	EUNOREANORM	<u> </u>	ED INCEV 1994V	F-J-3	IC700	VSI2499B			VSI2500B	C-A	-4			
					R554		<u> </u>	ERJ3GEYJ391V	C-I-2		De illi	_	0	N: J _					
					R555			ERJ3GEYJ103V	C-J-2		Position		Component S	orde					
					R556			ERJ3GEYJ181V	C-I-2			F:	Foil Side						
												•							

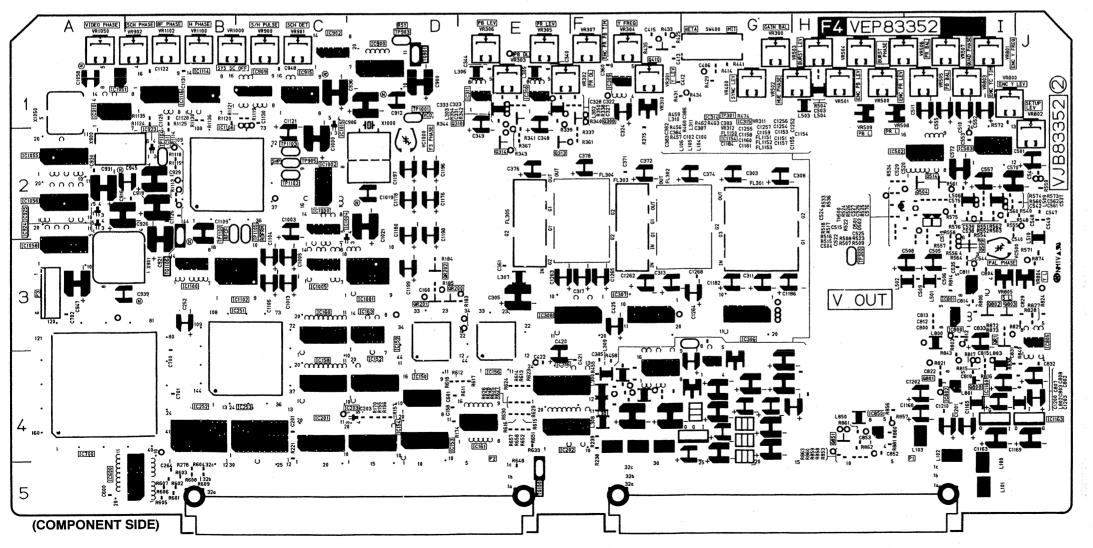
2-61



V OUT (FOIL SIDE)						
Transistors		IC1003	D-2			
Q300	G-3	IC1053	A-2			
Q301	G-3	IC1057	A-2			
Q302	F-3	IC1103	B-1			
Q303	F-3	IC1107	B-2			
Q304	F-3	IC1108	C-2			
Q305	E-3	IC1113	B-2			
Q306	G-2	IC1115	B-1			
Q307	F-2	IC1150	D-2			
Q309	F-2	IC1151	D-2			
Q311	F-1	IC1152	D-3			
Q312	E-1	IC1153	G-3			
Q315	F-2	IC1154	G-4			
Q316	F-2	IC1155	H-3			
Q317	E-2	IC1156	D-2			
Q318	E-2	IC1157	D-2			
Q319	E-2	IC1158	D-3			
Q320	F-4	IC1159	D-3			
Q400	G-1	IC1160	I-4			
Q401	G-1	IC1161	1-4			
Q402	G-1	IC1162	I-4			
Q403	H-1	IC1163	J-4			
Q404	G-1	IC1165	F-3			
Q405	G-2	IC1166	E-3			
Q406	F-1	IC1167	G-3			
Q407	F-1	IC1168	F-3			
Q408	H-2	Test Points				
Q409	G-1	TG100	E-5			
Q500	H-2	TG901	D-1			
Q501	1-2	TG1106	B-2			
Q502	H-2	TP300	H-3			
Q503	H-2	TP301	G-3			
Q506	1-2	TP903	D-1			
Q506	I-2	TP905	C-2			
Q507	I-2	TP1001	D-1			
Q508	H-1	TP1100	B-2			
Q510	I-2	TP1102	C-2			
Q511	I-2	TP1103	C-2			
Q512	I-2	TP1104	B-2			
Q513	I-2	TP1105	C-2			
Q804	. I-3	Adjustments				
Q806	1-4	VC500	I-3			
Q807	1-3	VC1000	D-2			
Q850	H-4	VR300	G-1			
Q1000	C-2	VR301	F-1			
Q1001	D-2	VR302	F-1			
Q1002	D-2	VR304	F-1			
Transistor & Re	sistors	VR305	E-1			
QR300	E-2	VR306	E-1			
QR301	F-2	VR307	F-1			
QR500	H-2	VR400	G-1			
QR501	H-1	VR500	H-1			
QR801	J-1	VR501	H-1			
QR802	I-3	VR502	H-1			
QR803	J-3	VR503	H-1			
Integrated Circu		VR504	H-1			
IC151	D-4	VR505	I-1			
IC157	D-3	VR506	H-1			
IC164	E-3	VR507	I-1			
IC200	C-4	VR800	J-1			
IC250	B-3	VR801	1-1			
IC254	B-3	VR802	J-2			
IC255	B-4	VR803	i-1			
IC256	B-4	VR900	C-1			
IC256	B-5	VR901	C-1			
IC300	H-3	VR902	B-1			
IC300	H-3	VR1000	B-1			
IC312	F-2	VR1050	A-1			
IC312	H-3	VR1000 VR1100	B-1			
	п-3 I-3	VR1100 VR1102	B-1			
IC500	1-3 E-4	Connectors	U-1			
IC601	E-4 E-4	P1	G-5			
IC602						
IC603	E-4	P2	C-5			
		P3	A-3			
			1.			
ADDRESS INFO	MAIIUN					
IC604 IC701 IC702 IC904 IC908 IC913 IC916 ADDRESS INFO	A-3 A-4 A-4 C-1 C-1 A-2 A-3 RMATION	P3	A-3			

3–5





V	OUT (COM	PONENT SI	DE)
Transistors		IC1114	B-1
Q308	F-1	IC1116	B-1
	E-1	IC1154	G-4
Q310		IC1160	1-4
Q313	E-2	IC1160	J-4
Q314	E-2		J-4
Q410	F-1	Test Points	
Q504	I-2	TG100	E-5
Q509	I-3	TG901	D-1
Q514	I-2	TG1106	B-3
Q800	1-4	TP300	H-3
Q801	I-4	TP301	G-4
Q802	I-2	TP903	D-1
Q803	1-3	TP905	C-2
Q851	H-4	TP1001	D-1
Transistor & Re		TP1100	B-2
QR1	I-3	TP1102	C-2
		TP1103	C-2
QR200	D-3	TP1103	B-2
QR201	D-3	1	
QR202	D-3	TP1105	C-2
Integrated Circu		Adjustments	
IC150	D-4	VC500	1-3
IC152	D-4	VC1000	D-2
IC153	D-4	VR300	G-1
IC154	D-4	VR301	F-1
IC156	E-3	VR302	F-1
IC158	C-4	VR303	E-1
IC159	D-3	VR304	F-1
IC160	C-3	VR305	E-1
IC161	E-4	VR306	E-1
IC163	D-3	VR307	F-1
	C-4	VR310	F-1
IC201			G-4
IC202	F-4	VR311	
IC203	D-4	VR312	G-4
IC251	C-3	VR400	G-1
IC252	B-4	VR500	H-1
IC253	C-4	VR501	H-1
IC306	G-3	VR502	G-1
IC307	F-3	VR503	H-1
IC308	E-3	VR504	H-1
IC309	F-1	VR505 `	I-1
IC310	E-1	VR506	I-1
IC311	E-1	VR507	I-1
IC314	G-4	VR508	H-1
IC315	G-4	VR509	H-1
IC316	E-4	VR800	I-1
1		VR801	I-1
IC502	I-2	i i	
IC503	I-2	VR802	J-2
IC600	B-5	VR803	I-1
IC700	A-4	VR804	J-3
IC800	1-3	VR805	I-3
IC801	1-3	VR900	C-1
IC802	I-4	VR901	C-1
IC805	J-3	VR902	B-1
IC850	H-4	VR1000	B-1
IC900	D-1	VR1050	A-1
IC902	C-1	VR1100	B-1
IC909	C-1	VR1102	B-1
IC910	A-1	Connectors	
IC915	C-1	P1	I-4
1	1	P2	E-4
IC923	B-2	P2 P3	A-3
IC924	A-2	l P3	A-3
IC925	A-2		
IC1000	C-2		
IC1001	D-3		
IC1002	C-2		
IC1004	D-2		
IC1005	C-3		
IC1015	C-2		İ
IC1051	A-1	· .	
IC1055	A-2		
IC1056	A-2		
101030	A-2 A-3		-
101050	۸-9	l	
IC11058	D 2		
IC1100	B-3		
IC1100 IC1102	C-3		
IC1100	C-3 B-2		

## Supplement to the Service Manual

**Broadcast Product** 

Subject : Countermeasure for Electric Power Capability of 3 Terminals Regulator IC under High Temperature (60°C)

Please use this supplement together with the Service Manual as follows:								
Model No.	Bulletin No.	Order No.	Effective from					
AJ-D750E/EN	30	VSD9606M502A/B	A7TRB0001					
AJ-D650E/EN	3	VSD9612MJ01A/B	A7TRA0001					
AJ-D640E/EN	3	VSD9612MJ01A/B	A7TRA0001					

Board: REC PB (F5:VEP83223B) - AJ-D750

REC PB (F5:VEP83353B) - AJ-D640/D650

Symptom: Electric power capability of 3 terminals regulator IC may be over under high temperature environment

(60°C).

Remedy: To prevent it, the input voltage is decreased. The following modification is performed.

#### \* P.C.Board version is VEP83223B (AJ-D750)

- 1). Cut the foil between terminal I of IC256 and terminal O of D112 on the foil side as shown in figures 1 and 2.
- 2). Add a diode D113 (11ES1) between terminal I of IC254 (anode side) and terminal I of IC256 (cathode side) on the foil side as shown in figures 1 and 3.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
D113		11ES1	DIODE	0→1	

#### \* P.C.Board version is VEP83353B (AJ-D640/D650)

- 1). Cut the foil between terminal I of IC3206 and terminal O of D3112 on the foil side as shown in figures 3 and 4.
- 2). Add a diode D3113 (11ES1) between terminal I of IC3204 (anode side) and terminal I of IC3206 (cathode side) on the foil side as shown in figures 2 and 3.

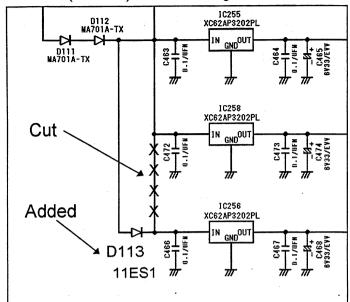
Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
D3113		11ES1	DIODE	0→1	

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#### REC PB (F5 22/23) Schematic Diagram

#### REC PB (F5 22/23) Schematic Diagram



D112
MA701A-TX

D1111
MA701A-TX

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MA701A-TX

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MA701A-TX

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Fig. 1 Page 2-107 (E-3) - AJ-D750

Fig. 2 Page 2-82 (B-4) - AJ-D640/D650

#### F5 REC PB P.C.Board (VEP83223B / VEP83353B)

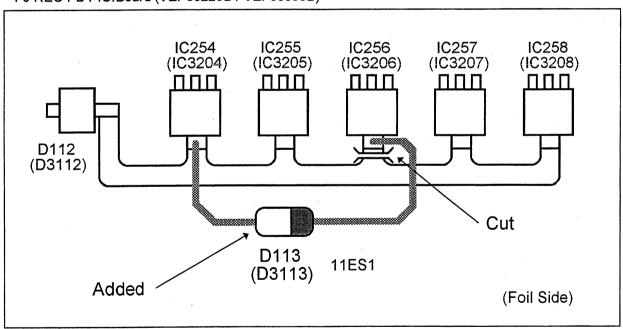


Fig. 3 Page 3-7 (E-4) - AJ-D750 Page 3-6 (E-4) - AJ-D640/D650

# Supplement to the Service Manual

**Broadcast Product** 

Subject: Improvement of Data Communication Error between AV Micon and SBC Micon under High Temperature (60°C)

Please use this supplement together with the Service Manual as follows :								
Model No.	Bulletin No.	Order No.	Effective from					
AJ-D750E/EN	33	VSD9606M502A/B	B7TRB0001					
AJ-D650E/EN	4	VSD9612MJ01A/B	B7TRA0001					
AJ-D640E/EN	4	VSD9612MJ01A/B	B7TRA0001					

Board : System Control (F2:VEP86146B) - AJ-D750

System Control (F2:VEP86146E) - AJ-D650 System Control (F2:VEP86146F) - AJ-D640

Symptom: Data communication error between AV microcomputer and SBC microcomputer may occur under

high temperature environment (60°C).

Cause : Data input/output timing is delayed due to the temperature characteristics of Transistor-Resistor. It

results in data communication error.

Remedy: To prevent it, the following transistor-resistors QR701, QR702 and QR703 are changed from UN2214

to UN221L on the foil side.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
QR701 ~ 3	UN2214	UN221L	TRANSISTOR-RESISTOR	3	

#### AJ-D750

Ref. No.	Schem	atic Diagram	P.C.Board		
1	Page	Area No.	Page	Area No.	
QR701	2-40	B-5 (10/14)	3-4	H-4 (F)	
QR702	2-40	A-10 (10/14)	3-4	H-3 (F)	
QR703	2-40	A-11 (10/14)	3-4	H-3 (F)	

#### AJ-D640/D650

Ref. No.	Schema	atic Diagram	P.C.Board		
	Page	Area No.	Page	Area No.	
QR701	2-40	F-3 (10/14)	3-4	H-4 (F)	
QR702	2-40	F-6 (10/14)	3-4	H-3 (F)	
QR703	2-40	F-7 (10/14)	3-4	H-3 (F)	

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# Supplement to the Service Manual

**Broadcast Product** 

#### **Subject: Common Use of ICs (CPU)**

Please use this supplement together with the Service Manual as follows :							
Model No.	Bulletin No.	Order No.	Effective from				
AJ-D750E/EN	34	VSD9606M502A/B	B7TRB0001				
AJ-D650E/EN	5	VSD9612MJ01A/B	B7TRA0001				
AJ-D640E/EN	5	VSD9612MJ01A/B	B7TRA0001				

Board : System Control (F2:VEP86146B) - AJ-D750 System Control (F2:VEP86146E) - AJ-D650 System Control (F2:VEP86146F) - AJ-D640 Front CPU (VEP86147A) - AJ-D750 Front CPU (VEP86256A) - AJ-D640/D650

Reason for Change

- The following part(s) has(have) been changed for serviceability improvement.
- ☐ The following part(s) has(have) been changed for productivity improvement.
- The following part(s) has(have) been changed for standardization.
- ☐ The following part(s) has (have) been changed for the safety regulation.

#### F2 System Control Board (VEP86146B / AJ-D750)

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC500	HD64180ZRP8	HD64180ZRP8 or	IC	1	
	l	HD64180ZRP10			<u> </u>

Ref. No.	Schematic Diagram		P.C.Board	
	Page	Area No.	Page	Area No.
IC500	2-36	B~F-5 (6/14)	3-3	F-2 (C)

#### F2 System Control Board (VEP86146E / AJ-D650, VEP86146F / AJ-D640)

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC500	HD64180ZRP8	HD64180ZRP8 or HD64180ZRP10	IC	1	

Ref. No.	Schematic Diagram		P.C.Board	
	Page	Area No.	Page	Area No.
IC500	2-36	E~C-3 (6/14)	3-4	F-2 (C)

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# **Panasonic**

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#### Front CPU (VEP86147A / AJ-D750)

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC1	HD64180ZRP8	HD64180ZRP8 or	IC	1	
		HD64180ZRP10			

Ref. No.	Schematic Diagram		P.C.Board	
	Page	Area No.	Page	Area No.
IC1	2-196	C~G-4 (1/4)	3-21	E-2 (C)

#### Front CPU (VEP86256A / AJ-D640/D650)

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC1	HD64180ZRP8	HD64180ZRP8 or	IC.	1	
		HD64180ZRP10			

ſ	Ref. No.	Schematic Diagram		P.C.Board	
١		Page	Area No.	Page	Area No.
	IC1	2-154	E~C-3 (1/3)	3-12	K-3 (C)

# Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Improvement of Clamp Pulse of Color Signal

Please use this supplement to	ease use this supplement together with the Service Manual as follows :				
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D750E/EN	35	VSD9606M502A/B	B7TRB0001		
AJ-D650E/EN	6	VSD9612MJ01A/B	B7TRA0001		
AJ-D640E/EN	6	VSD9612MJ01A/B	B7TRA0001		

Board : V IN (F6:VEP83341A) - AJ-D750 V IN (F6:VEP83355B) - AJ-D640/D650

Symptom: Clamp pulse of the color signal is not good.

Remedy: To improve the clamp pulse of color signal, the following modification is performed.

1). Change transistors Q303, Q656, Q706 and Q756 from 2SK374 to 2SK198 on the foil side.

2). Change resistors R713 and R763 from  $270 \text{K}\Omega$  to  $220 \text{K}\Omega$  on the foil side.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
Q303	2SK374	2SK198	TRANSISTOR	1	
Q656	2SK374	2SK198	TRANSISTOR	1	
Q706	2SK374	2SK198	TRANSISTOR	1	
Q756	2SK374	2SK198	TRANSISTOR	1 1	
R713	ERJ6GEYJ274	ERJ6GEYJ224	M. RESISTOR CH 1/10W 220K	1	
R763	ERJ6GEYJ274	ERJ6GEYJ224	M. RESISTOR CH 1/10W 220K	1 1	

#### AJ-D750

Ref. No.	Schema	tic Diagram	P.C.E	Board
	Page	Area No.	Page	Area No.
Q303	2-116	F-6 (7/18)	3-8	I-3 (F)
Q656	2-123	F-7 (14/18)	3-8	E-3 (F)
Q706	2-124	F-7 (15/18)	3-8	C-2 (F)
Q756	2-125	F-7 (16/18)	3-8	C-1 (F)
R713	2-124	G-5 (15/18)	3-8	C-2 (F)
R763	2-125	G-5 (16/18)	3-8	C-1 (F)

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AJ-D640/D650

Ref. No.	Schematic Diagram		P.C.Board	
	Page	Area No.	Page	Area No.
Q303	2-90	C-5 (7/18)	3-7	I-3 (F)
Q656	2-97	B-6 (14/18)	3-7	E-3 (F)
Q706	2-98	B-6 (15/18)	3-7	C-2 (F)
Q756	2-99	B-6 (16/18)	3-7	C-1 (F)
R713	2-98	B-4 (15/18)	3-7	C-2 (F)
R763	2-99	B-4 (16/18)	3-7	C-1 (F)

# Supplement to the Service Manual

**Broadcast Product** 

#### **Subject: Improvement of LTC Output Waveform**

lease use this supplement together with the Service Manual as follows :				
Model No.	Bulletin No.	Order No.	Effective from	
AJ-D750E/EN	36	VSD9606M502A/B	B7TRB0001	
AJ-D650E/EN	7	VSD9612MJ01A/B	B7TRA0001	
AJ-D640E/EN	7	VSD9612MJ01A/B	B7TRA0001	

Board: System Control (F2:VEP86146B) - AJ-D750

System Control (F2:VEP86146E) - AJ-D650

System Control (F2:VEP86146F) - AJ-D640

Symptom: LTC Output waveform may not meet the specification. (SMPTE)

Remedy: To improve the LTC output waveform, the following modification is performed.

1). Change capacitor C771 from 50V/2200pF to 50V/820pF on the component side.

2). Change resistor R790 from  $22K\Omega$  to  $12K\Omega$  on the foil side.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
C771	ECUM1H222KBN	ECUM1H821JCN	C. CAPACITOR CH 50V 820P	1	
R790	VRE0034E223	VRE0034E123	M. RESISTOR CH 1/10W 12K	1	

#### A 1 D750

70-D100				
Ref. No.	Schema	atic Diagram	P.C.I	Board
	Page	Area No.	Page	Area No.
C771	2-41	D-13 (11/14)	3-4	I-4 (C)
R790	2-41	D-13 (11/14)	3-4	I-4 (F)

#### AJ-D640/D650

Ref. No.	Schemat	ic Diagram	P.C.B	oard
	Page	Area No.	Page	Area No.
C771	2-41	D-8 (11/14)	3-4	I-4 (C)
R790	2-41	D-8 (11/14)	3-4	I-4 (F)

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# Supplement to the Service Manual

**Broadcast Product** 

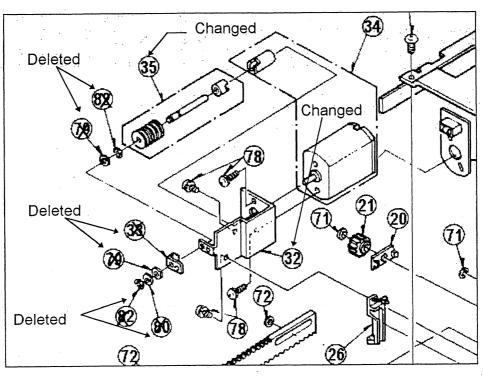
## **Subject: Introduction of Emergency Eject Function**

Please use this supplement to	gether with the Service Manu	al as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	46	VSD9606M502A	H6TRA0001
AJ-D650E	10	VSD9612MJ01A	K6TRA0001
AJ-D640E	10	VSD9612MJ01A	K6TRA0001

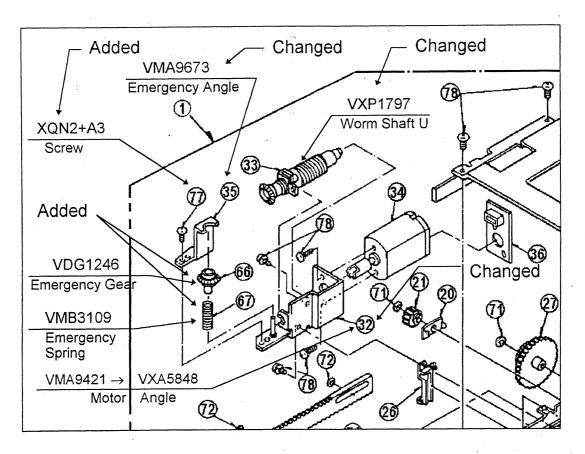
Cassette Compartment Assembly

To improve serviceability, Emergency Eject function is introduced as follows.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
1	VXA5755	VXA5850	CASSETTE COMPARTMENT U	1	
32	VMA9421	VXA5848	MOTOR ANGLE	1	
33	VMD2535		THRUST HOLDER	1→0	9
33		VXP1797	WORM SHAFT U	0→1	
35	VXP1687		WORM SHAFT U	1→0	
35		VMA9673	EMERGENCY ANGLE	0→1	
66		VDG1246	EMERGENCY GEAR	0→1	
67		VMB3109	EMERGENCY SPRING	0→1	
77		XQN2+A3	SCREW	[0→1]	
79	XWGV2D5G		WASHER	2→0	
80	XWGV2Y4G		WASHER	[1→0]	
82	XUC2FP		E-RING	2→0	







After the introduction of Emergency Eject Function, tape can remove manually as follows.

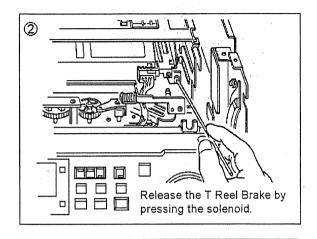
#### Manual Tape Eject

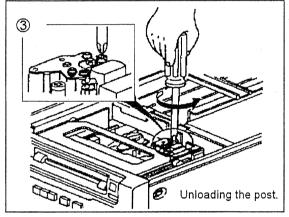
When a tape can not be ejected because of power failure or mechanical tape damage, remove the tape manually as follows.

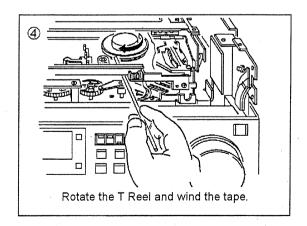
- 1. Turn the power OFF and remove the Top panel and Front Upper Panel.
- 2. Release the Reel Brake by pressing the iron core of the T Reel Brake Solenoid. This is done by a thin stick from the VTR front as shown in figure 1.
- Rotate the Red Plastic Screw by a Phillips Head Screwdriver to counterclockwise (CCW) keep pushing the screw. It needs to rotate about 30 times rotation until starting to move as shown in figure 2.
- 4. When the post is unloaded, the tape loosens, so the Take-up Reel must be wound the tape to protect the tape looseness.

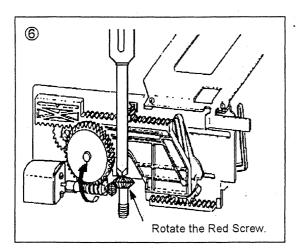
The tape wind method is as follows; inserting a wood stick (non magnetized) between the cassette and mechanism chassis from the front and rotate the T Reel to the tape wind direction as shown in figure 3.

- 5. Repeat item 3 and 4 until the tape is wound completely inside of the cassette.
- When the tape is completely inside of the cassette, rotate the Red Plastic Gear of the Cassette Down Motor and remove the cassette. Take care so that the cassette cover does not bite the tape when the cover is closed.









Order No. VSD9704SA650

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# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Countermeasure for M Cassette Oblique Insertion

Please use this supplement together with the Service Manual as follows:					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D750E/EN	50	VSD9606M502A	H6TRA0001		
AJ-D650E	. 13	VSD9612MJ01A	K6TRA0001		
AJ-D640E	13	VSD9612MJ01A	K6TRA0001		

#### Cassette Compartment Assembly

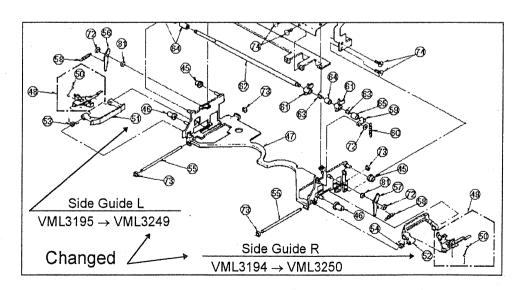
Symptom: M Cassette Lid may not be released when the M cassette is inserted obliquely.

Cause : As there is a little margin between the M cassette tape and Side Guide (R) and (L), M cassette may

be inserted obliquely. And then, M Cassette Lid cannot be released.

Remedy: To prevent it, the Side Guide (L) and (R) are changed as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
51	VML3195	VML3249	SIDE GUIDE L	1	
52	VML3194	VML3250	SIDE GUIDE R	1	



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## Supplement to the Service Manual

**Broadcast Product** 

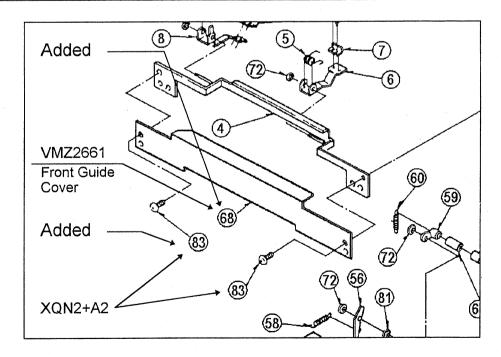
#### **Subject: Addition of Front Guide Cover**

Please use this supplement to	gether with the Service Manu	al as follows:	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	52	VSD9606M502A	I6TRA0001
AJ-D650E	14	VSD9612MJ01A	K6TRA0001
AJ-D640E	14	VSD9612MJ01A	K6TRA0001

#### Cassette Compartment Assembly

To prevent the dust from coming into the Mechanical Chassis Unit from outside, the Front Guide Cover is added to the Front Guide Panel as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
68		VMZ2661	FRONT GUIDE COVER	0→1	
83		XQN2+A2	SCREW	0→2	



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Order No. VSD9704SC602

V181151

# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Improvement of TC Output Level

Please use this supplement	Please use this supplement together with the Service Manual as follows :					
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D650E	16	VSD9612MJ01A/B	K6TRA0001			
AJ-D640E	16	VSD9612MJ01A/B	K6TRA0001			

Board: System Control (F2:VEP86146E) - AJ-D650 System Control (F2:VEP86146F) - AJ-D640

Symptom: TC output level is not stable.

Cause : There is a little margin to the input impedance of the Connection.

Remedy: To improve the TC output level, a jumper wire is connected between TP702 and ground on the

component side as shown in figures 1 and 2.

#### System Control (F2 11/14) Schematic Diagram

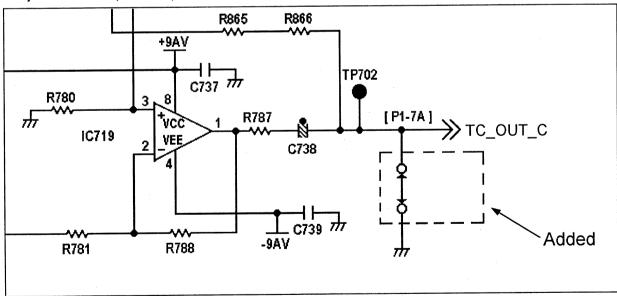


Fig. 1 Page 2-41 (D-9~10)

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#### System Control P.C. Board (VEP86146E/F)

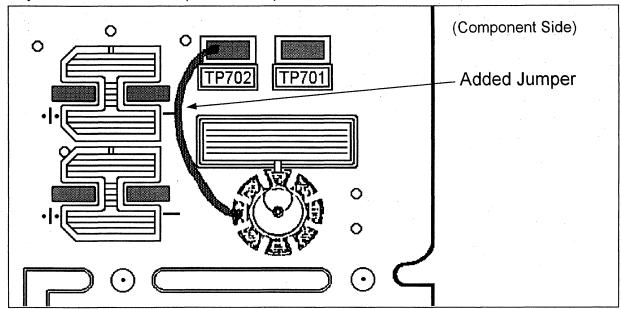
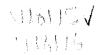


Fig. 2 Page 3-4 (J-5)



## Supplement to the Service Manual

**Broadcast Product** 

#### **Subject: Reduction of Noise on Headphone Output**

Please use this supplement	Please use this supplement together with the Service Manual as follows :					
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D650E	17	VSD9612MJ01A/B	K6TRA0001			
AJ-D640E	17	VSD9612MJ01A/B	K6TRA0001			

Board: ADDA CUE (F8:VEP84293B)

Symptom: Noise may appear on the Headphone output when the mute circuit of the Headphone output is turned ON/OFF.

Remedy: To reduce the noise, the following modification is performed.

1). Delete transistors Q4345 and Q4346 and resistors R4354 and R4356 from the foil side.

2). Cut the foil from D342 on the component side as shown in figure 1 and 2.

3). Connect a jumper wire between D343 and pin #28B of P4002 on the foil side as shown in figures 1 and 3

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
Q4345, 46	2SD1328		TRANSISTOR	2→0	
R4354	ERJ6GEYJ103		M. RESISTOR CH 1/10W 10K	1→0	
R4356	ERJ6GEYJ103	-	M. RESISTOR CH 1/10W 10K	1→0	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
Q4345	2-121	C-5 (7/12)	3-9	E-2 (F)
Q4346	2-121	B-5 (7/12)	3-9	E-2 (F)
R4354	2-121	C-5 (7/12)	3-9	D-2 (F)
R4356	2-121	B-5 (7/12)	3-9	D-2 (F)

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#### ADDA CUE (F8 7/12) Schematic Diagram

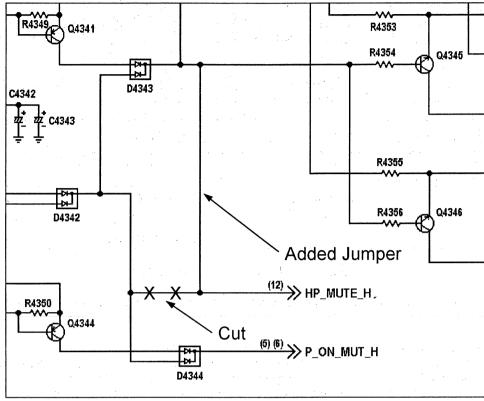


Fig. 1 Page 2-121 (B~C-4~5)

#### F8 ADDA CUE P.C. Board (VEP84293B)

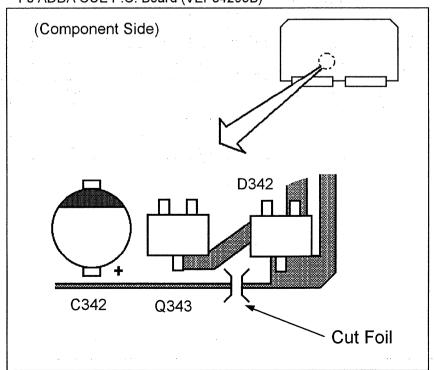


Fig. 2 Page 3-9 (E-3)

#### F8 ADDA CUE P.C. Board (VEP84293B)

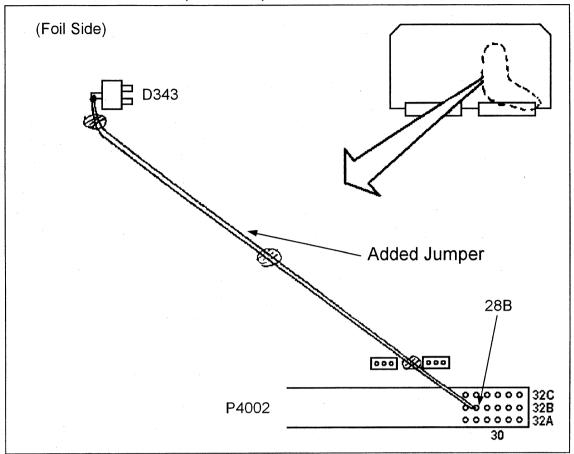


Fig. 3 Page 3-9

Order No. VSD9704SC604

181151

## **Technical Bulletin**

### Supplement to the Service Manual

**Broadcast Product** 

**Subject: Improvement of SCH OUT** 

Please use this supplement	together with the Service Man	ual as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D650E	18	VSD9612MJ01A/B	K6TRA0001
AJ-D640E	18	VSD9612MJ01A/B	K6TRA0001

Board: V OUT (F4:VEP83352B)

Symptom: SCH may be out of specification.

Remedy : To prevent of it, resistor R927 is changed from 1/16W,  $10 \text{K}\Omega$  to 1/16 W,  $6.8 \text{K}\Omega$  on the foil side.

After this modification, 7-11. Burst Phase Adjustment 1 is required.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R927	ERJ3GEYJ103	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page Area No.		Page	Area No.
R927	2-56	C-8 (12/16)	3-5	B-1 (F)



### Supplement to the Service Manual

**Broadcast Product** 

#### **Subject: Improvement of Vector Distortion Adjustment Range**

Please use this supplement	together with the Service Man	ual as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D650E	19	VSD9612MJ01A/B	K6TRA0001
AJ-D640E	19	VSD9612MJ01A/B	K6TRA0001

Board: VOUT (F4:VEP83352B)

Symptom: There is a little margin of the Vector Distortion Adjustment range.

Remedy : To prevent it, resistor R542 is changed from 1/16W,  $100\Omega$  to 1/16W,  $10\Omega$  on the foil side.

After this modification, 7-9. Vector Adjustment (VR507:QUAD Phase) is required.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R542	ERJ3GEYJ101	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
R542	2-51	B-6 (7/16)	3-5	I-1 (F)



### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Improvement of K Factor Margin

Please use this supplement together with the Service Manual as follows:					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D650E	20	VSD9612MJ01A/B	K6TRA0001		
AJ-D640E	20	VSD9612MJ01A/B	K6TRA0001		

Board: VOUT (F4:VEP83352B)

Symptom: There is a little margin of the K factor at the Component IN/OUT.

Remedy: To prevent it, the following modification is performed.

- 1). Capacitors C327 and C331 (50V/12pF) and C338 and C342 (50V/10pF) are deleted from the foil side.
- 2). Capacitors C341 and C345 (50V/120pF) are added to no mounted pattern on the foil side.
- 3). Resistors R365 and R371 (1/16W, 390 $\Omega$ ) are added to no mounted pattern on the foil side.
- 4). After this modification, the following adjustments are required.
  - 7-17. Component PB Level Adjustment
  - 7-18. Component PR Level Adjustment
  - 7-19. Component Y-PB Timing Adjustment
  - 7-20. Component Y-PR Timing Adjustment

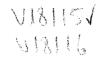
Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
C327	ECUX1H120JCV		C. CAPACITOR CH 50V 12P	1→0	
C331	ECUX1H120JCV		C. CAPACITOR CH 50V 12P	[1→0]	
C338	ECUX1H100DCV		C. CAPACITOR CH 50V 10P	[1→0]	
C341		ECUX1H121JCV	C. CAPACITOR CH 50V 120P	0→1	
C342	ECUX1H100DCV		C. CAPACITOR CH 50V 10P	[1→0]	
C345		ECUX1H121JCV	C. CAPACITOR CH 50V 120P	0→1	
R365		ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	0→1	
R371		ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	0→1	

Ref. No.	Schematic	Diagram	P.C. Bo	pard
	Page	Area No.	Page	Area No.
C327	2-49	D-6 (5/16)	3-5	G-1 (R)
C331	2-49	B-6 (5/16)	3-5	F-1 (R)
C338	2-49	D-7 (5/16)	3-5	G-1 (R)
C341	2-49	C-7 (5/16)	3-5	G-1 (R)
C342	2-49	B-7 (5/16)	3-5	G-1 (R)
C345	2-49	B-7 (5/16)	3-5	F-1 (R)
R365	2-49	C-7 (5/16)	3-5	G-1 (R)
R371	2-49	B-7 (5/16)	3-5	F-2 (R)

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### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Improvement of Black Level at V Blanking Area

Please use this supplement	together with the Service Man	ual as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D650E	22	VSD9612MJ01A/B	L6TRA0001
AJ-D640E	22	VSD9612MJ01A/B	L6TRA0001

Board: VOUT (F4:VEP83352B)

Symptom: Black level of the V blanking area may be out of specification.

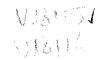
Remedy: To prevent it, the following modification is performed.

1). Resistor R374 is changed from 1/16W,  $1.5K\Omega$  to 1/16W,  $1.3K\Omega$  on the component side.

2). Resistor R375 is changed from 1/16W,  $33K\Omega$  to 1/16W,  $27K\Omega$  on the component side.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R374	ERJ3GEYJ152	ERJ3RBD132	M. RESISTOR CH 1/16W 1.3K	1	
R375	ERJ3GEYJ333	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	

Ref. No.	Schematic Diagram		P.C.	Board
	Page	Area No.	Page	Area No.
R374	2-49	E-8 (5/6)	3-5	G-2 (C)
R375	2-49	E-8 (5/6)	3-5	G-2 (C)



### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Improvement of Audio Input Level Adjustment

Please use this supplement together with the Service Manual as follows:				
Model No.	Bulletin No.	Order No.	Effective from	
AJ-D650E	23	VSD9612MJ01A/B	A7TRA0001	
AJ-D640E	23	VSD9612MJ01A/B	A7TRA0001	

Board: ADDA CUE (F8:VEP84293B)

Symptom: Audio input level cannot be adjusted.

Cause : Due to a little margin of the Audio input level adjustment range.

Remedy: To improve the audio input level adjustment, the following modification is performed.

1). Resistors R4040 and R4100 are changed from 1/16W,  $10 \text{K}\Omega$  to 1/16W,  $3.3 \text{K}\Omega$  on the component side

2). Resistors R4041 and R4101 are changed from 1/16W,  $470\Omega$  to 1/16W,  $0\Omega$  on the foil side.

3). Resistors R4048 and R4108 are changed from 1/16W,  $0\Omega$  to 1/16W,  $680\Omega$  on the foil side.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R4040	ERJ3GEYJ103	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R4041	ERJ3GEYJ471	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R4048	ERJ3GEY0R00	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R4100	ERJ3GEYJ103	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	*
R4101	ERJ3GEYJ471	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R4108	ERJ3GEY0R00	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
R4040	2-115	D-6 (1/12)	3-9	J-3 (C)
R4041	2-115	D-6 (1/12)	3-9	J-3 (F)
R4048	2-115	B-2 (1/12)	3-9	I-4 (F)
R4100	2-116	D-6 (2/12)	3-9	I-3 (C)
R4101	2-116	D-6 (2/12)	3-9	I-3 (F)
R4108	2-116	B-2 (2/12)	3-9	H-4 (F)

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Order No. VSD9704SC610



## VIRUSI echnical Bulleti **Broadcast Product**

## Supplement to the Service Manual

## Subject : Improvement of Y/C OUT Gain

Subject : Improvemer	t of Y/C OUT Gail		
Please use this supplement tog  Model No.  AJ-D650E  AJ-D640E	ether with the Service Manu Bulletin No. 24	ual as follows: Order No. VSD9612MJ01A/B VSD9612MJ01A/B T (F4:VEP83352B)	Effective from A7TRA0001 A7TRA0001

Board: V OUT (F4:VEP83352B)

Symptom: There is a level difference between Composite OUT and Y/C OUT.

Remedy: To reduce the level difference, the gain of Y/C OUT is increased. The following modification is

1). Resistor R834 is changed from ERJ3GEYJ821 to ERJ3RBD821 on the component side.

1). Resistors R835, R836, R838, R839 and R840 are changed from ERJ3GEYJ821 to ERJ3RBD821

on the foil side. Remarks Pcs Part Name & Descriptions 3 M. RESISTOR CH 1/16W 820 New Part No. Part Number M. RESISTOR CH 1/16W 820 Original Part No. ERJ3RBD821 Ref. No. ERJ3GEYJ821 ERJ3RBD821 R834~ 836

Ref. No. Original Part No. R834~ 836 ERJ3GEYJ82 ERJ3GEYJ82	1 ERJ3RBD821	M. RESISTOR CH 1710	P.C. B	oard Area No.
Ref. No.  R834  R835  R836  R838  R839  R840	Schematic  Page  2-54 2-54 2-54 2-54 2-54 2-54 2-54	Area No.  C-8 (10/16)  C-8 (10/16)  B-8 (10/16)  A-8 (10/16)  B-8 (10/16)  A-8 (10/16)  A-8 (10/16)	Page 3-5 3-5 3-5 3-5 3-5 3-5 3-5	I-3 (C) I-3 (F) I-3 (F) I-3 (F) I-3 (F) I-3 (F)

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### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Reduction of PCM Audio Noise during DV Slow Playback Mode

Please use this supplement together with the Service Manual as follows:				
Model No.	Bulletin No.	Order No.	Effective from	
AJ-D650E	26	VSD9612MJ01A/B	A7TRA0001	
AJ-D640E	26	VSD9612MJ01A/B	A7TRA0001	

Board: A PROC (F7:VEP84292A)

Symptom: PCM Audio noise may appear during DV Slow Playback mode.

Cause : Clock phase which input to LSI (IC12) is not good.

Remedy: To reduce the PCM Audio noise during DV Slow Playback mode, capacitor C30 (50V/1000pF) is

added between pins #2 and #8 of IC9 on the component side as shown in figure 1.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
C30		ECKF1H102KB	C. CAPACITOR 50V 1000P	0→1	

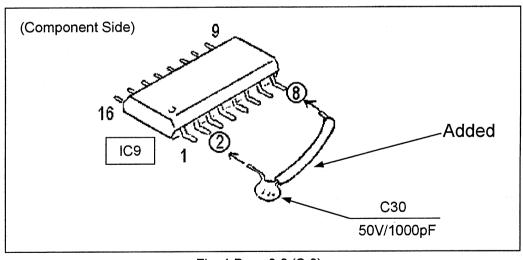


Fig. 1 Page 3-8 (C-3)

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## Supplement to the Service Manual

**Broadcast Product** 

## Subject : Reduction of PCM Audio Noise during EE Mode

Subject : Reduction C	) POW Addit		
Please use this supplement too  Model No.  AJ-D650E  AJ-D640E	gether with the Service Man Bulletin No. 25 25	VSD9612MJ01A/B VSD9612MJ01A/B	Effective from A7TRA0001 A7TRA0001
	25	VSD9612MJ01A/B	

Board: A PROC (F7:VEP84292A)

Symptom: PCM Audio noise may appear during EE mode.

: Phases between frame signal from the F5 REC PB Board and 18MHz clock are not good.

Remedy: To reduce the PCM Audio noise during EE mode, the following modification is performed.

1). Resistor R49 (1/10W,  $0\Omega$ ) is deleted from foil side.

2). Resistor R48 (1/10W,  $0\Omega$ ) is added to the pattern on the foil side.

2). Resistor R46 (1/1000, 50-7)	
	Pcs Remarks
Part Number New Part No. New Part No.	Part Name & Descriptions PCS   0→1
	M. RESISTOR CH 1/10W 2 1→0
	M. RESISTOR CH 1/10W 2 13-30
R48 ERJ6GEY0R00 1	P.C. Board
	Area No.

R48 R49	ERJ6GEY0R00		W. REGIOTES	P.C.	Board Area No.
	f. No. R48 R49	Schematic Page 2-103 2-103	Diagram Area No.  B-4 (2/13) B-4 (2/13)	Page 3-8 3-8	A-4 (F) A-4 (F)

Order No. VSD9704SC613

118/15/ 118/16

## **Technical Bulletin**

### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Improvement of Index Area Switching Position

lease use this supplement together with the Service Manual as follows :				
Model No.	Bulletin No.	Order No.	Effective from	
AJ-D650E	27	VSD9612MJ01A/B	A7TRA0001	
AJ-D640E	27	VSD9612MJ01A/B	A7TRA0001	

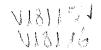
Board: VOUT (F4:VEP83352B)

Symptom: Index area switching position may be 1H shifted.

Remedy: To prevent it, the PLD IC700 is changed from VSI2403 to VSI2403A on the component side.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC700	VSI2403	VSI2403A	IC	1	Checksum: 0024DDF5

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
IC700	2-53	D-5 (9/16)	3-5	A-4 (C)



### Supplement to the Service Manual

**Broadcast Product** 

Subject : Improvement of Pb/Pr and Composite Chroma Levels

Please use this supplement together with the Service Manual as follows:					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D650E	28	VSD9612MJ01A/B	B7TRA0001		
AJ-D640E	28	VSD9612MJ01A/B	B7TRA0001		

Board: VOUT (F4:VEP83352B)

Symptom: Pb and Pr levels and Composite Chroma level cannot be adjusted.

Cause : Due to the tolerance of DA reference voltage.

Remedy: To improve them, the following modification is performed.

- 1). Resistors R308 and R309 are changed from ERJ3GEYJ472 to ERJ3RBD472 on the foil side.
  2). Resistors R310 and R311 are changed from ERJ3GEYJ103 to ERJ3RBD103 on the foil side.
- 3). Resistors R502 and R503 are changed from ERJ3GEYJ472 to ERJ3GEYJ272 on the foil side. 4). Variable Resistors VR305 and VR306 are changed from  $100\Omega$  to  $500\Omega$  on the component side.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R308, 309	ERJ3GEYJ472	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R310, 311	ERJ3GEYJ103	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R502, 503	ERJ3GEYJ472	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	2	
VP305 306	EVMEGSA00B12	EVMEGSA00B52	V RESISTOR 500	2	

Ref. No.	Schematic	Diagram	P.C. Board	
	Page	Area No.	Page	Area No.
R308	2-49	E-4 (5/16)	3-5	F-3 (F)
R309	2-49	E-4 (5/16)	3-5	F-3 (F)
R310	2-49	D-4 (5/16)	3-5	F-3 (F)
R311	2-49	D-4 (5/16)	3-5	F-3 (F)
R502	2-51	F-3 (7/16)	3-5	H-2 (F)
R503	2-51	F-3 (7/16)	3-5	G-2 (F)
VR305	2-49	C-7 (5/16)	3-5	G-1 (C)
VR306	2-49	B-7 (5/16)	3-5	F-1 (C)

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### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Standardization of REC PB P.C. Board

Please use this supplement together with the Service Manual as follows:					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D650E	30	VSD9612MJ01A/B	A7TRA0001		
AJ-D640E	30	VSD9612MJ01A/B	A7TRA0001		

Board: REC PB (F5:VEP83353B)

To standardize the F5 REC PB P.C. Board, the following resistors are added or deleted as shown below.

1). Resistor R3131 (1/10W,  $0\Omega$ ) is deleted from the foil side.

2). Resistor R3132 (1/10W,  $0\Omega$ ) is added to no mounted pattern of the foil side.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R3131	ERJ3GEY0R00		M. RESISTOR CH 1/10W 0	1→0	
R3132		ERJ3GEY0R00	M. RESISTOR CH 1/10W 0	[0→1]	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
R3131	2-61	C-3 (1/23)	3-6	D-3 (F)
R3132	2-61	B-3 (1/23)	3-6	D-3 (F)

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## **Technical Bulletin**

### Supplement to the Service Manual

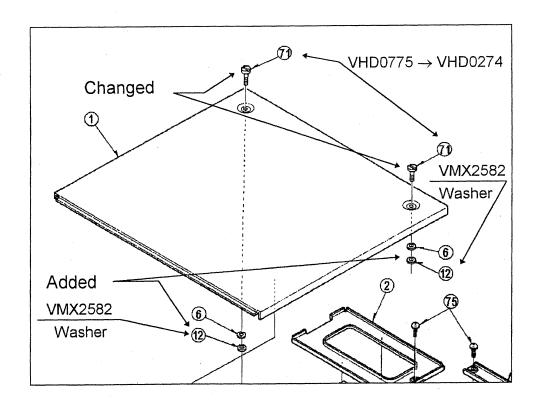
**Broadcast Product** 

#### **Subject: Service Manual Correction**

Please use this supplement to	Please use this supplement together with the Service Manual as follows :					
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D750E/EN	61	VSD9606M502A	<b></b>			
AJ-D650E	39	VSD9612MJ01A				
AJ-D640E	39	VSD9612MJ01A				

#### Casing Parts Assembly

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
12	***	VMX2582	WASHER	0→2	
71	VHD0775	VHD0274	SCREW	2	





### Supplement to the Service Manual

**Broadcast Product** 

#### **Subject: Prevention of Screw Looseness**

Please use this supplement together with the Service Manual as follows :					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D750E/EN	65	VSD9606M502A	L6TRB0001		
AJ-D650E	40	VSD9612MJ01A	L6TRA0001		
AJ-D640E	40	VSD9612MJ01A	L6TRA0001		

#### Cassette Compartment Assembly

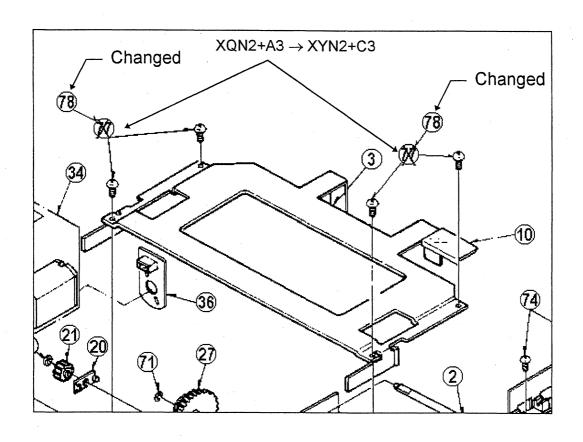
Symptom: Screws for Cassette Compartment as shown below may be loosened due to the vibration.

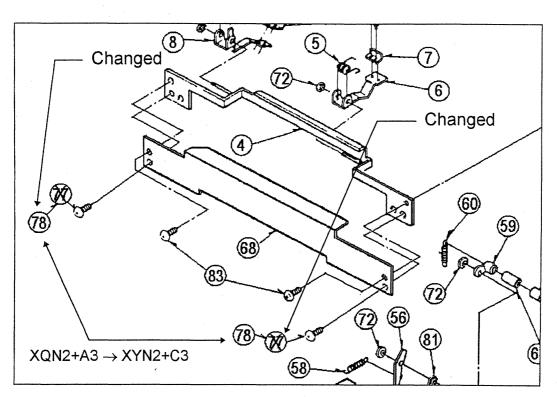
Remedy: To prevent the screw from loosening, the screws are changed from XQN2+A3 to XYN2+C3 as shown

below.

According to this change, the Cassette Compartment unit is changed from VXA5850 to VXA5934.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
1	VXA5850	VXA5934	CASSETTE COMPARTMENT U	1	
77	XQN2+A3		SCREW	6→0	
78	W 20 50	XYN2+C3	SCREW	0→6	





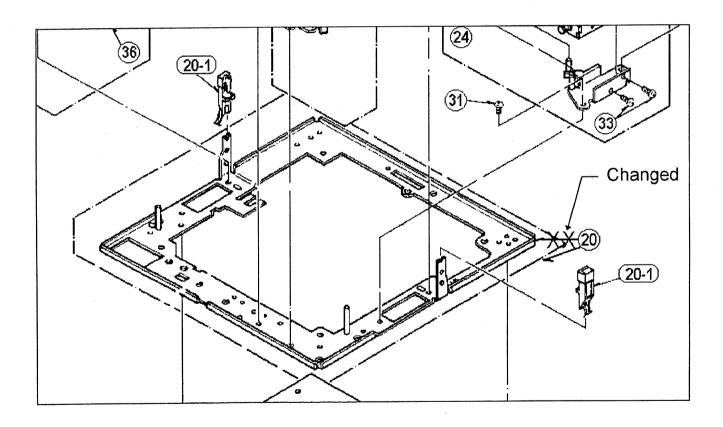
### Supplement to the Service Manual

**Broadcast Product** 

### **Subject: Service Manual Correction**

Please use this supplement t	Please use this supplement together with the Service Manual as follows :					
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D650E	41	VSD9612MJ01A				
AJ-D640E	41	VSD9612MJ01A				

Sub Chassis Assembly





### Supplement to the Service Manual

**Broadcast Product** 

#### **Subject: Prevention of Screw Looseness**

lease use this supplement together with the Service Manual as follows :				
Model No.	Bulletin No.	Order No.	Effective from	
AJ-D750E/EN	69	VSD9606M502A	L6TRB0001	
AJ-D650E	42	VSD9612MJ01A	L6TRA0001	
AJ-D640E	42	VSD9612MJ01A	L6TRA0001	

#### Sub Chassis Assembly

Symptom: When the L or M cassette is inserted, the Cassette Compartment unit may touch with the Take-up

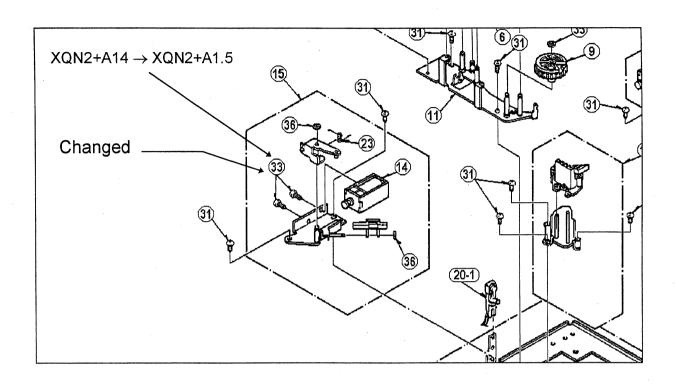
Brake

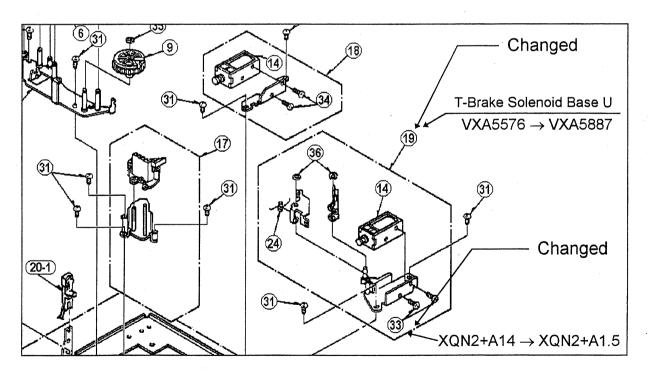
Remedy: To prevent it, the T-Brake Solenoid Base unit is changed from VXA5576 to VXA5887 as shown below.

According to this change, the screws for Take-up and Supply Brake Solenoid Base (1) unit is changed

from XQN2+A14 to XQN2+A1.5.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
19	VXA5576	VXA5887	T-BRAKE SOLENOID BASE U	1	
33	XQN2+A14	XQN2+A1.5	SCREW	4	





## **Technical Bulletin**

### Supplement to the Service Manual

**Broadcast Product** 

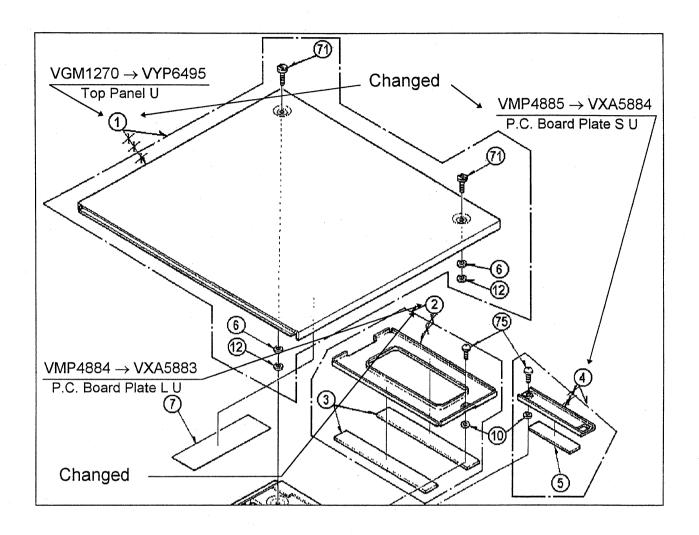
#### **Subject: Change of Parts Supply Method**

Please use this supplement together with the Service Manual as follows:					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D750E/EN	70	VSD9606M502A	L6TRB0001		
AJ-D650E	43	VSD9612MJ01A	L6TRA0001		
AJ-D640E	43	VSD9612MJ01A	L6TRA0001		

#### Packing Parts Assembly

To improve the manufacturing productivity, the parts supply method of the Top Panel and P.C.Board Plates are changed as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
1	VGM1270	VYP6495	TOP PANEL U	1	
2	VMP4884	VXA5883	P.C.BOARD PLATE L U	.   1	
4	VMP4885	VXA5884	P.C.BOARD PLATE S U	11	



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## **Technical Bulletin**

### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Change of Screws

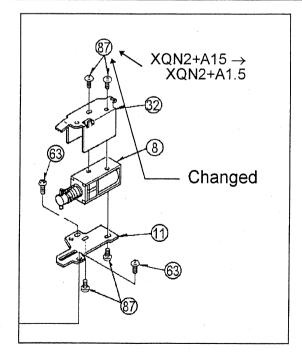
Please use this supplement together with the Service Manual as follows :					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D750E/EN	71	VSD9606M502A	A7TRB0001		
AJ-D650E	44	VSD9612MJ01A	A7TRA0001		
AJ-D640E	44	VSD9612MJ01A	A7TRA0001		

#### Mechanical Chassis Assembly (2)

#### Reason for Change

- ☐ The following part(s) has(have) been changed for serviceability improvement.
- The following part(s) has(have) been changed for productivity improvement.
- ☐ The following part(s) has(have) been changed for standardization.
- ☐ The following part(s) has (have) been changed for the safety regulation.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
87	XQN2+A15	XQN2+A1.5	SCREW	4	



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## **Technical Bulletin**

### Supplement to the Service Manual

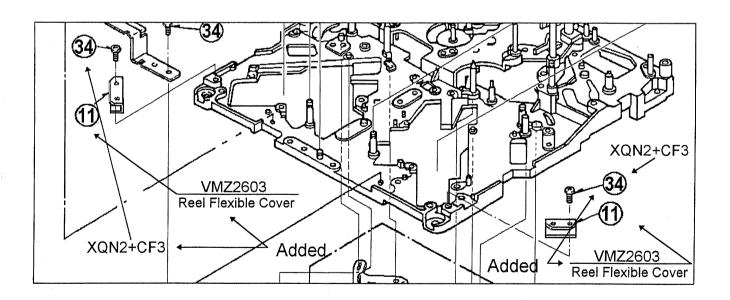
**Broadcast Product** 

#### **Subject: Service Manual Correction**

lease use this supplement together with the Service Manual as follows :				
Model No.	Bulletin No.	Order No.	Effective from	
AJ-D750E/EN	72	VSD9606M502A		
AJ-D650E	45	VSD9612MJ01A		
AJ-D640E	45	VSD9612MJ01A	un auton	

#### Mechanical Chassis Assembly (1)

Part Number						
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks	
11		VMZ2603	REEL FLEXIBLE COVER	0→2		
34		XQN2+CF3	SCREW	0→2		



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### Supplement to the Service Manual

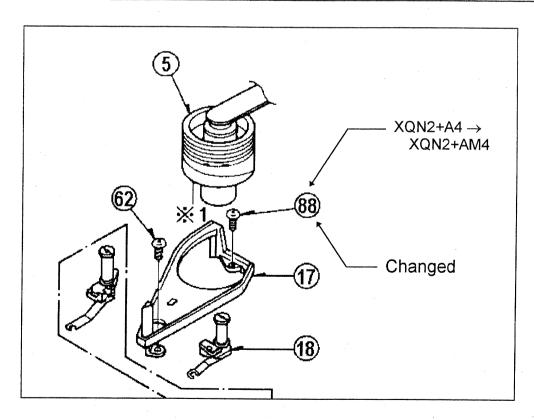
**Broadcast Product** 

#### **Subject: Service Manual Correction**

Please use this supplement together with the Service Manual as follows :				
Model No.	Bulletin No.	Order No.	Effective from	
AJ-D750E/EN	74	VSD9606M502A		
AJ-D650E	46	VSD9612MJ01A		
AJ-D640E	46	VSD9612MJ01A	95.00 <b></b>	

#### Mechanical Chassis Assembly (2)

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
88	XQN2+A4	XQN2+AM4	SCREW	1	



TM3521

JAZALSV VABIASV

Order No. VSD9706SA675

## **Technical Bulletin**

### Supplement to the Service Manual

**Broadcast Product** 

#### **Subject: Prevention of Cassette Tape Incorrect Insertion**

Please use this supplement to	ease use this supplement together with the Service Manual as follows :				
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D750E/EN	75	VSD9606M502A	B7TRB0001		
AJ-D650E	47	VSD9612MJ01A	B7TRA0001		
AJ-D640E	47	VSD9612MJ01A	B7TRA0001		

#### Casing Parts Assembly

Symptom: M cassette may not be inserted correctly.

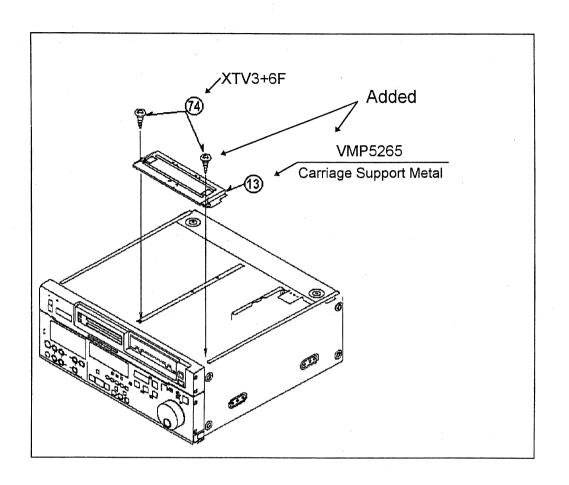
Cause : Cassette compartment may slide a little to horizontal direction. It results in incorrect insertion of the

cassette compartment.

Remedy : To fix the cassette compartment, the Carriage Support Metal (VMP5265) is added on the Cassette

Compartment as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
13		VMP5265	CARRIAGE SUPPORT METAL	0→1	
74		XTV3+6F	SCREW	0→2	



V17726 VA8115V

## **Technical Bulletin**

### Supplement to the Service Manual

**Broadcast Product** 

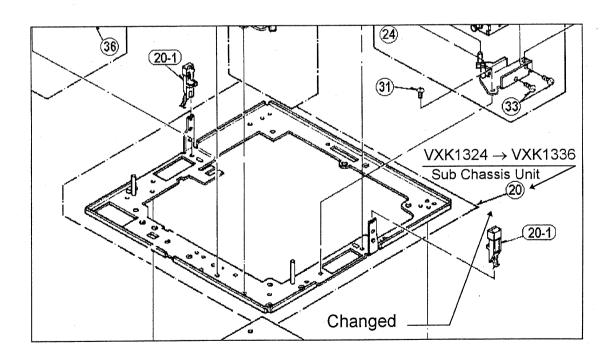
#### Subject: Standardization of Sub Chassis Unit

Please use this supplement together with the Service Manual as follows :						
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D750E/EN	76	VSD9606M502A	B7TRB0001			
AJ-D650E	48	VSD9612MJ01A	B7TRA0001			
AJ-D640E	48	VSD9612MJ01A	B7TRA0001			

Sub Chassis Assembly

To standardize the parts, the Sub Chassis Unit is changed from VXK1324 to VXK1336 as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
20	VXK1324	VXK1336	SUB CHASSIS U	1	



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### Supplement to the Service Manual

**Broadcast Product** 

#### **Subject: Extension of Maintenance Time**

Please use this supple	ement together with the Service Man	ual as follows :	
Model No.	Bulletin No.	Order No.	Effective from
	V14726 YOUR 77	VSD9606M502A	
AJ-D700E/EN	V 17 728 voc. 48	VSD9606M501A	
AJ-D650E	V18115 49	VSD9612MJ01A	
AJ-D640E	49	VSD9612MJ01A	
AJ-D800E/EN	7 20161 vorb. 1	VSD9708M606A	

The Maintenance Time has been extended after investigation of each parts durability.

The listed maintenance time is based on head rotation time, unless it is otherwise state as based on Operation Time.

(Unit hours)

	Current AJ-D700	Current AJ-D750 AJ-D650	New Common	Remark
	AJ-D800	AJ-D640		
Cylinder Unit	1,000	1,500	2,000	·
Pinch Arm Unit	1,000	1,500	4,000	
Cleaning Arm Unit	1,000	1,500	2,000	
S Reel (Rotor Unit)	1,000	6,000	6,000	
T Reel (Rotor Unit)	1,000	6,000	6,000	
Thrust Screw Unit	Not Listed	Not Listed	6,000	Newly added
S1 Loading Arm Unit	3,000	3,000	12,000	Replaced with Mech. Chassis Unit
T1 Boat Unit	3,000	3,000	12,000	Replaced with Mech. Chassis Unit
S5 Post Unit	3,000	3,000	12,000	Replaced with Mech. Chassis Unit
Tension Arm Unit	3,000	3,000	12,000	Replaced with Mech. Chassis Unit
S Brake Arm Unit	Not Listed	Not Used	6,000	
T Brake Arm Unit	Not Listed	Not Used	6,000	
Front Loading Unit	Not Used	6,000	12,000	Replaced with Mech. Chassis Unit
Mech. Chassis Unit	3,000	6,000	12,000	
1.5" CRT (EVF)	Not Listed	Not Used	5,000	Operation Time.
, , ,		·		
Fan Motor	Not Used	3,000	10,000	Operation Time (Current head rotation time)
LCD Display	Not Used	Not Listed	10,000	Operation TimeAJ-LT75 only

### **Panasonic**

## 1. AJ-D700E/EN / AJ-D800E/EN Maintenance Maintenance Schedule

	Name	Part Number	Hours of Use ( hours)					
			2,000	4,000	6,000	8,000	10,000	12,000
	Tape Path Cleaning			△ Clean the Tape Path at each 500 hours				
1	Cylinder Unit	VEG1337	•	•	•	•	•	0
2	Pinch Arm Unit	VXL2684		●*1		●*1		0
3	Cleaning Arm Unit	VXL2748	•	•	•	•	• 1	0
4	S Reel(Rotor Unit)	VEM0629			•			0
5	T Reel(Rotor Unit)	VEM0630			•			0
6	S Brake Arm Unit	VXL2705			•			0
7	T Brake Arm Unit	VXL2706			•			0
8	Thrust Screw Unit	VXQ0556			•			<b>O</b>
9	Mech. Chassis Unit	VXY1229						•
10	1.5" CRT (EVF)	M04KYS07WB	Replace the CRT at each 5,000 hours <u>Operation Time</u> .					

Note: Hours of Use are based on the head rotation hours.

Hours of Use are recommendation. It may depend on temperature, humidity or dust.

Hours of Use are listed as the reference of maintenance. They do not mean guaranteed hours.

- ©:These parts are included in Mech. Chassis Unit. Replacing Mech. Chassis Unit is recommended.
- **★1**. The lubrication is necessary when replacing the Pinch Arm Unit.

△:This mark means cleaning is necessary. Detail cleaning procedures are written in Service Manual.

## 2. AJ-D750E/EN / AJ-D650E / AJ-D640E Maintenance Maintenance Parts Chart

		Part Number	Hours of Use (unit hours)						
-	Name		2,000	4,000	6,000	8,000	10,000	12,000	
	Tape Path Cleaning			△ Clean t	he Tape Pa	ath at each	500 hours		
1	Cylinder Unit	VEG1337	•	•	•	•	•	0	
2	Pinch Arm Unit	VXL2684		●*1		●*1		0	
3	Cleaning Arm Unit	VXL2748	•	•	• •	•	•	0	
4	S Reel Motor A Unit	VEM0635			•			<b></b>	
5	T Reel Motor A Unit	VEM0636			•			0	
6	Thrust Screw Unit	VXQ0556			•			0	
7	Cassette Compartment	VXA5979						•	
	Unit								
8	Mech. Chassis Unit	VXY1254Z1						•	
9	Fan Motor	VRF0190	Replace Fan Motor at each 10,000 hours <u>Operation Time</u> .						

Note: Hours of Use are based on the head rotation hours.

Hours of Use are recommendation. It may depend on temperature, humidity or dust.

Hours of Use are listed as the reference of maintenance. They do not mean guaranteed hours.

- ©:These parts are included in Mech. Chassis Unit. Replacing Mech. Chassis Unit is recommended.
- \*1. The lubrication is necessary when replacing the Pinch Arm Unit.
- △:This mark means cleaning is necessary. Detail cleaning procedures are written in Service Manual.

V18116 V

Order No. VSD9708SC622

## **Technical Bulletin**

### Supplement to the Service Manual

**Broadcast Product** 

Subject: Major Mechanism Parts Replacement and Adjustment Procedures

Please use this supplement together with the Service Manual as follows:						
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D650E	50	VSD9612MJ01A	First Production			
AJ-D640E	50	VSD9612MJ01A	First Production			

6. Major Mechanism Parts Replacement and Adjustment Procedures on this supplement should be added to the Section 3 "Maintenance & Mechanical Adjustment" of the service manual.

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### 6. MAJOR MECHANISM PARTS REPLACEMENT AND ADJUSTMENT PROCEDURES

#### **GENERAL**

When mechanical parts are replaced, pay attention to the following notes.

- 1. Always turn power off before replacing any parts.
- If any adjustment is necessary after the parts is replaced, perform the adjustment after replacement.
- 3. Use proper hard tools of fixtures.
- 4. Be sure to clean the parts after replacement. Also when the mechanical parts are replaced, follow the replacement procedure.



#### (Removal)

- 1. Remove the Top Panel (Refer to item [2-1. Removal of Top Panel]).
- 2. Remove the Bottom Panel (Refer to item [2-2. Removal of Bottom Panell).
- 3. Unscrew the 2 screws and remove the T1 GUIDE (Refer to item 6-1-1).
- 4. Remove the cleaning Arm Unit (Refer to item 6-1-1).
- Disconnect the connector P5002 and P5003 on the Head Buffer P.C.Board. And remove the screw which is fixed with the flexible cable as shown in Fig. 6-1-1.

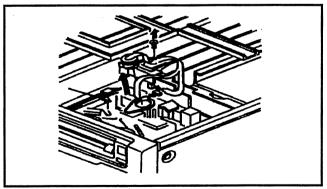


Fig. 6-1-1

**Note:** Be careful when remove the flexible cable from the connector. Refer to Fig. 6-1-2.

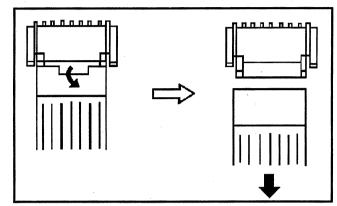


Fig. 6-1-2

 Disconnect the connector P33 of the MECHA I/F P.C.Board. And remove the 3 screws which have spring from the Cylinder Unit, then remove the Cylinder Unit without touching any mechanical parts as shown in Fig. 6-1-3.

**Note:** Never touch the cylinder by finger directly, when pull out the Cylinder Unit.

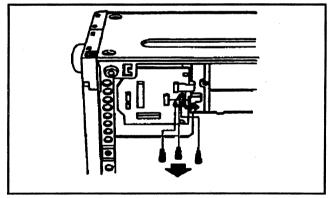


Fig. 6-1-3

#### (Installation)

1. Install the new Cylinder Unit and reverse the previous steps.

**Note:** When install the Cylinder Unit, the pins on MECHA chassis should be matched with the holes of Cylinder Unit as shown in Fig. 6-1-4.

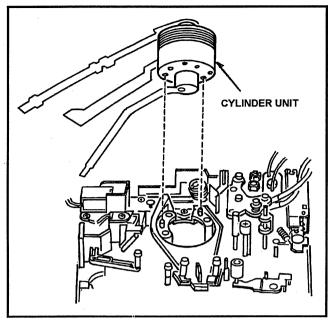


Fig. 6-1-4

- After installation of T1 Guide, T1 Guide Position Adjustment should be performed (Refer to item 6-1-2).
- After replacing the Cylinder Unit, perform the adjustments according to the flowchart shown in item [6-1-3. Adjustment Flowchart after Cylinder Unit Replacement]

#### 6-1-1. Cleaning Arm Unit Replacement

#### (Removal)

- 1. Remove the Top Panel.
- Unscrew the 2 screws (A) and remove the T1 Guide as shown in Fig. 6-1-5.
- 3. Expand the tip portion (B) of cleaning Arm Unit and pull up the Cleaning Arm Unit, and hang off the spring from the Cleaner Arm Unit as shown in Fig. 6-1-5.

#### (Installation)

- 1. Install the Cleaning Arm Unit, then hang on the spring to the Cleaning Arm Unit.
- Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller rotates when the cylinder is rotated by hand.
- 3. Install the T1 Guide by tightening 2 screws (A).
- 4. T1 Guide Position Adjustment should be performed as follows.

#### 6-1-2. T1 Guide Position Adjustment

Place the unit in the Loading completed position.

#### < How to make the Loading Condition >

- Open the "Servo Adjust" menu in the "Service Menu".
- Select the item "T TORQUE" and press the STOP button for making the loading condition and turn power off.
- 1. Observe the clearance (B) between T1 Guide and T1 post as shown in Fig. 6-1-6. And make sure that it is within 0.2 to 0.5mm.
- If not, loosen the 2 screws (A) and adjust the position of T1 Guide by moving arrow direction (G 
   ⇔ G) so that the clearance (B) is within specification. Then tighten the 2 screws (A).

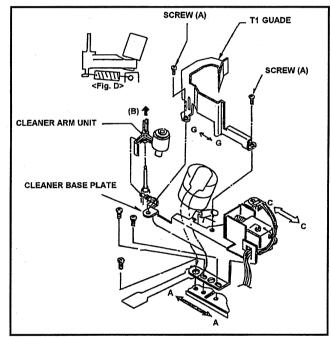


Fig. 6-1-5 Removal of Cleaner Roller Unit

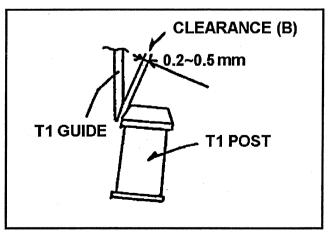
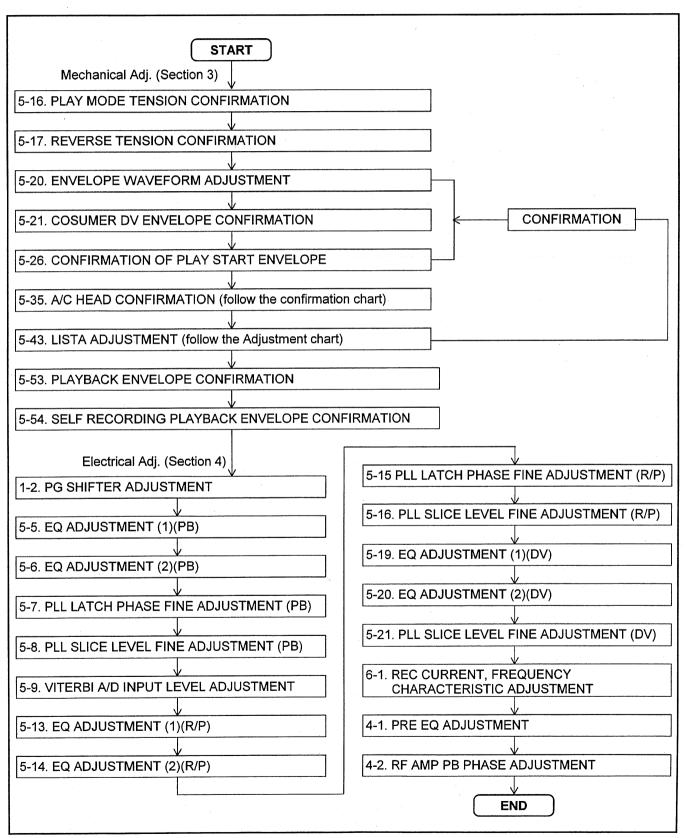


Fig. 6-1-6 Adjustment of T1 Guide

#### 6-1-3. ADJUSTMENT FLOWCHART AFTER CYLINDER UNIT REPLACEMENT

**Note:** Please confirm the condition of Linearity before Head replacement. The number indicated in the below chart is that on the Service manual.



#### 6-2. A/C Head Replacement

#### 6-2-1. Replacement

※ Tools required: Nut Driver (5.5m/m)(VFK1150) Hex Driver (VFK1148) Hex Wrench (VFK1190)

#### (Removal)

- 1. Remove the Top Panel (Refer to item [2-1. Removal of Top Panel]).
- 2. Remove the Bottom Panel (Refer to item [2-2. Removal of Bottom Panel]).
- Disconnect the connector P1 on the AC HEAD I/F P.C.Board.
- 4. Disconnect the connector P30 on the MECHA I/F P.C.Board.
- Loosen the hex screw (B) and remove the Nut (C).
  Hang off the Head Height Adjustment Spring and
  then remove the A/C Head Unit as shown in Fig.
  6-2-1.

**Point:** Memorize the height of Nut (C) before removing the Nut (C).

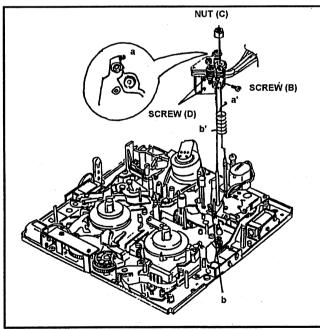


Fig. 6-2-1 Removal of A/C Head Unit

6. Remove the 2 screws (A), then remove the A/C Head from the A/C Head Plate as shown in Fig. 6-2-2.

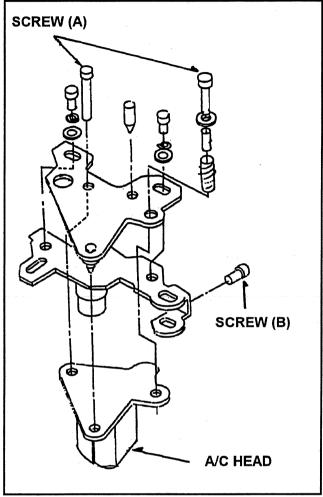


Fig. 6-2-2 Removal of A/C Head

- Remove the Shield Cover by removing 2 screws
   (D) as shown in Fig. 6-2-1.
- 8. Unsolder the lead wires (When unsolder the lead wires, do not unsolder all at the same time).

#### (Installation)

- 1. Remove the Shield Case from the new A/C Head and solder the lead wires to the new A/C Head (Refer to Fig. 6-2-3).
- 2. Reinstall the shield case to the A/C Head.
- Install the A/C Head to the A/C Head Plate by tightening 2 screws (A), then set the gap between the A/C Head and the A/C Head Plate to parallel.
- 4. Install the A/C Head Unit.
- 5. Hang on the Head Height Adjustment Spring and tighten the Nut (C).
- 6. Clean the surface of the A/C Head.

Note: After installation, Mechanical and Electrical adjustments should be performed and the hex screw (B) is kept loose until finishing the A/C Head Height Adjustment.

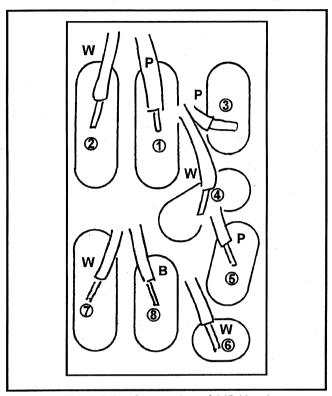
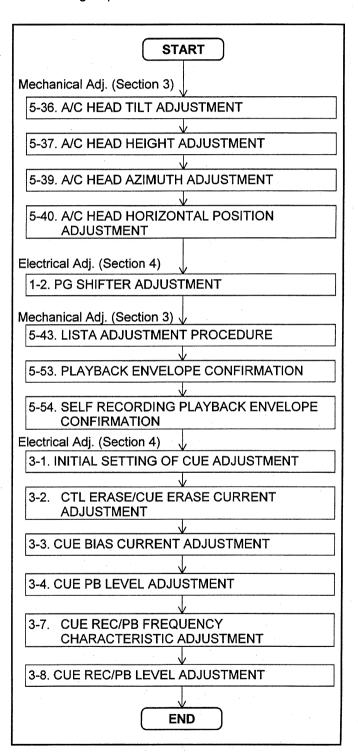


Fig. 6-2-3 Connection of A/C Head

A/C Head Side	Cable	e Color	Connector No.
1	PINK	YELLOW	
2	WHITE		•
3	PINK	RED	P1
4	WHITE		
5	PINK	GREEN	*
6	WHITE	4.	
7	WHITE	YELLOW	P30
8	BLACK		

## 6-2-2. Adjustment Flowchart after A/C Head Replacetment

1. After replacing the A/C Head, please perform the following steps.



## 6-3. Supply and Take up Reel Table Replacement

#### (Removal)

- 1. Remove the Top Panel (Refer to item [2-1. Removal of Top Panel]).
- Remove the Front Loading Unit (Refer to item [2-4. Removal of Front Loading Unit]).
- 3. Press the iron core of Brake Solenoid to release the Reel Brake.
- 4. Pull out the supply and Take up Reel Table.

**Note:** Be careful when pull out or install the Reel Table not to damage the bearing inside the Reel Table.

#### (Installation)

- 1. Install the Reel Tables and reverse the previous steps.
- 2. After installation, Main Brake torque confirmation (Refer to item 5-4) should be performed.

## 6-3-1. Supply and Take Up Reel Rotor Unit Replacement

#### (Removal)

- 1. Remove the Top Panel (Refer to item [2-1. Removal of Top Panel]).
- 2. Remove the Front Loading Unit (Refer to item [2-4. Removal of Front Loading Unit]).
- 3. Remove the Bottom Panel (Refer to item, [2-2. Removal of Bottom Panel]).
- 4. Disconnect the connector P34 and P35 on the MECHA I/F P.C.Board as shown in Fig. 6-3-1.
- 5. Move the S1 post to loading direction by manual ejecting method until the position where the screw (C) can be removed as shown in Fig. 6-3-2.
- Confirm the supply and Take Up Brake are not released.
- 7. Press the iron core of M stopper solenoid to release the M stopper.
- 8. Remove the 4 screws (C), (D) and (E) as shown in Fig. 6-3-2.
- 9. Remove the Supply and Take Up Reel Rotor Unit and Reel Outer Rail.

**Note:** Memorize the groove position of Reel Base in which the pin of Drive Arm Unit is inserted.

#### (Installation)

- Let the Reel Outer Rail in the new Supply and Take Up Reel Rotor Unit.
- Hang on the Reel Rotor Unit to the Reel Inner Rail and Install the Reel Rotor Unit so that the pin of Drive Arm Unit is matched with the groove position of Reel Base as shown in Figure 6-3-3.
- 3. Install the 4 screws (C), (D) and (E).
- 4. Confirm that the Reel Rotor Unit moves smoothly on the Rail by hand.
- Move the Reel Rotor Unit to the front side by hand and pull up the iron core of M stopper solenoid to operate M stopper.
- 6. Set the unit in the unloading condition by turning the Emergency shaft counterclockwise.
- 7. Adjust the height of Cassette Height Pin (Refer to item 5-2).
- 8. Connect the Flexible Cable to Connector P34 and P35 on the MECHA I/F P.C.Board.
- 9. Adjust the Motor Torque Offset value (Refer to item 1-1 of section 4).
- 10. Confirm Main Brake Torque (Refer to item 5-4).
- 11. Confirm Tension value on playback mode (Refer to item 5-16).

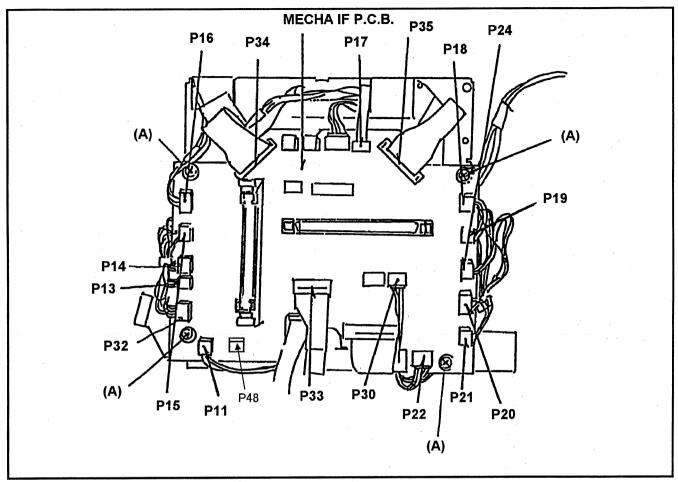


Fig. 6-3-1 Connection of MECHA I/F P.C.Board

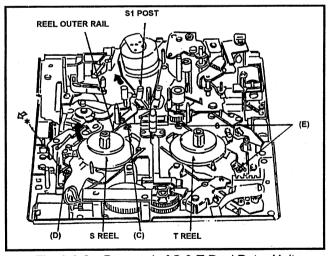


Fig. 6-3-2 Removal of S & T Reel Rotor Unit

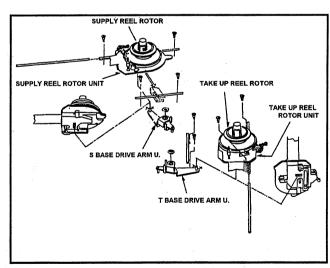


Fig. 6-3-3 Installation of S & T Reel Rotor Unit

# 6-4. Loading Motor Unit Replacement

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Panel.
- 4. Disconnect the connector P21 on the MECHA I/F P.C.Board as shown in Fig. 6-3-1.
- Remove the Pinch Solenoid Unit (Refer to item 6-8).
- 6. Remove the Pinch Solenoid Lever. (Refer to item 6-5).
- 7. Unscrew the screw (B), and remove the Emergency Shaft as shown in Fig. 6-4-1.
- 8. Unscrew the 2 screws (C) and remove the Loading Motor Neutral Unit as shown in Fig. 6-4-1.
- 9. Unscrew the 2 screws (D) and remove the Loading Motor Unit as shown in Fig. 6-4-1.

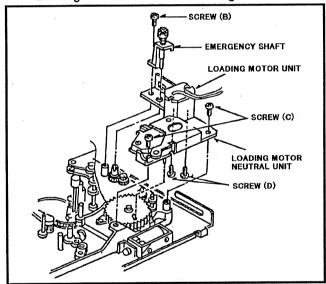


Fig. 6-4-1 Removal o Loading Motor Unit

#### (Installation)

- 1. Install the new Loading Motor Unit to the Loading Motor Neutral Unit by tightening 2 screws (D).
- Install the Loading Motor Neutral Unit by tightening the 2 screws (C) so that the pin of Mode SW Unit should be matched with the groove position of Main Cam Gear.
- 3. Install the Emergency Shaft by tightening the screw (B).
- 4. Install the Pinch Solenoid Unit. After installation, Pinch Solenoid Position adjustment is required. (Refer to item 5-3).

#### 6-5. Pinch Arm Unit Replacement

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Panel.
- Disconnect the connector P20 on the MECHA I/F P.C.Board as shown in Fig. 6-3-1.
- 5. Remove the Pinch Solenoid Unit (Refer to item 6-8, then hang off the Pinch Solenoid Lever as shown in Figure 6-5-1.).
- 6. Remove the cut washer (A) and remove the Pinch Solenoid Lever as shown in Fig. 6-5-1.
- 7. Remove the cut washer (B) and remove the Pinch Arm Unit as shown in Fig. 6-5-1.

#### (Installation)

 Install the new Pinch Arm Unit and reverse the previous steps. After installation, Pinch Solenoid Position Adjustment is necessary (Refer to item 5-3).

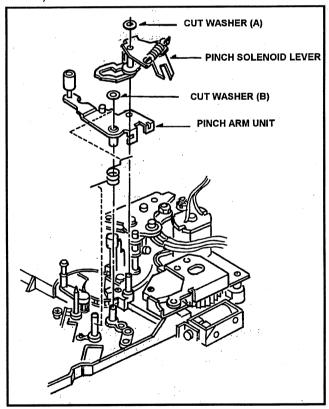


Fig. 6-5-1 Removal of Pinch Arm Unit

# 6-6. Supply and Take Up Brake Arm Unit Replacement

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- Press the iron core of Brake Solenoid for release the Brake.
- Remove the cut washers (A) and remove the Supply and Take Up Brake Arm Unit as shown in Fig. 6-6-1.

#### (Installation)

- 1. When install the new Brake Arm Unit, first hang on the Brake Arm Spring as shown in Fig. 6-6-1.
- 2. Reverse the previous steps.
- 3. Main Brake Torque confirmation is required (Refer to item 5-4).
- 4. Confirm the Tension value on the Playback mode (Refer to item 5-16).

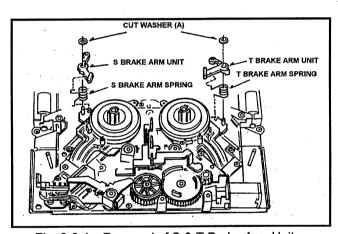


Fig. 6-6-1 Removal of S & T Brake Arm Unit

# 6-7. Mode Select Switch Unit Replacement

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Panel.
- 4. Disconnect the connector P22 on the MECHA I/F P.C.Board as shown in Fig. 6-3-1.
- 5. Remove the Pinch Solenoid Unit and Loading Motor Neutral Unit (Refer to item 6-4).
- 6. Remove the screw (D) and remove the Mode Select Switch Unit from Loading Motor Neutral Unit as shown in Fig. 6-7-1.

#### (Installation)

 Install the new Mode Select Switch Unit and reverse the previous steps (Refer to item [6-4. Loading Motor Unit Replacement]).

Note: Be careful that the pin of Mode Switch Unit should be matched with the groove of Main Cam Gear.

2. After installing the Pinch Solenoid Unit, Pinch Solenoid Position adjustment is required (Refer to item 5-3).

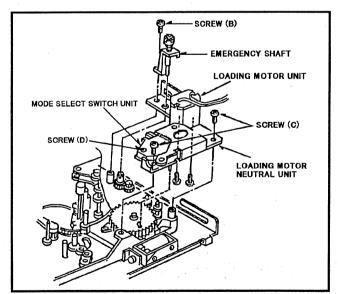


Fig. 6-7-1 Removal of Mode Select Switch Unit

#### 6-8. Pinch Solenoid Replacement

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Panel.
- 4. Disconnect the connector P20 on the MECHA I/F P.C.Board as shown in Fig. 6-3-1.
- 5. Unscrew the 2 screws (A) and remove the Pinch Solenoid Unit as shown in Fig. 6-8-1.
- 6. Unscrew the 2 screws (B) and remove the Pinch Solenoid Angle as shown in Fig. 6-8-1.
- 7. Unscrew the 2 screws (C) and remove the Pinch Solenoid from the Pinch Solenoid Base.

#### (Installation)

- Install the new Pinch Solenoid and reverse the previous steps.
- 2. After installation, Pinch Solenoid Position Adjustment is required (Refer to item 5-3).

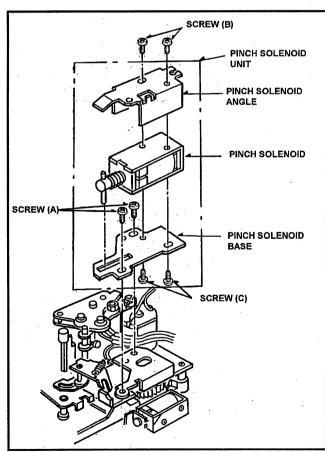


Fig. 6-8-1. Removal of Pinch Solenoid

# 6-9. Supply Brake Solenoid Replacement and Adjustment

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Panel.
- Disconnect the connector P15 on the MECHA I/F P.C.Board.
- 5. Unscrew the 2 screws (A) and remove the Supply Brake Solenoid Base Unit as shown in Fig. 6-9-1.
- 6. Unscrew the 2 screws (B) and remove the Supply Brake Solenoid from the Supply Brake Solenoid Base Unit as shown in Fig. 6-9-1.

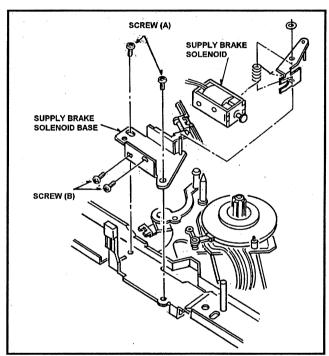


Fig. 6-9-1 Removal of Supply Brake Solenoid

#### (Installation)

- 1. Install the new Supply Brake Solenoid and reverse the previous steps.
- 2. After installation, position adjustment should be performed as follows.

#### (Adjustment)

- 1. Place the reels in the M cassette size position.
- Observe the clearance (A) between the Brake pad and it's turntable shown in Fig. 6-9-2 and make sure that it is within 0.2 to 0.5mm.
- 3. If not, loosen the 2 screws (A) shown in Fig. 6-9-1 and move the Brake Solenoid Unit to the arrow direction so that the clearance (A) is within specification as shown in Fig. 6-9-2. Then tighten the 2 screws (A).
- 4. After adjustment, change the reel position to S and L cassette size, and confirm that the clearance (A) is within specification.

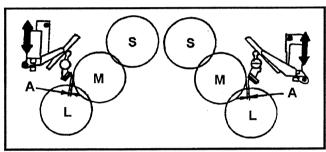


Fig. 6-9-2 Brake Solenoid Adjustment

# 6-10. Take Up Brake Solenoid Replacement and Adjustment

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Panel.
- Disconnect the connector P18 on the MECHA I/F P.C.Board.
- Unscrew the 2 screws (A) and remove the Take
   Up Brake Solenoid Base Unit as shown in Fig. 6-10-1.
- 6. Unscrew the 2 screws (B) and remove the Take Up Brake Solenoid from the Take Up Brake Solenoid Base Unit as shown in Fig. 6-10-1.

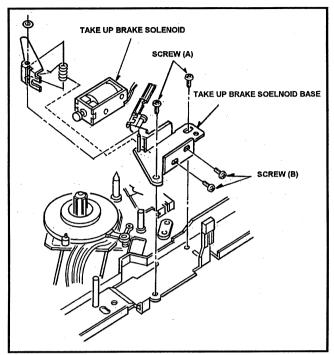


Fig. 6-10-1 Removal of Take Up Brake Solenoid

#### (Installation)

- Install the new Take up Brake Solenoid and reverse the previous steps.
- 2. After installation, position adjustment should be performed as follows.

#### (Adjustment)

- 1. Place the reels in the M cassette size position.
- 2. Observe the clearance (A) between Brake pad and it's turntable shown in Fig. 6-9-2 and make sure that it is within 0.2 to 0.5mm.
- 3. If not, loosen the 2 screws (A) shown in Fig. 6-10-1 and move the Brake Solenoid Unit to the arrow direction so that the clearance (A) is within specification as shown in Fig. 6-9-2. Then tighten the 2 screws (A).
- After adjustment, change the reel position to S and L cassette size, and confirm that the clearance (A) is within specification.

#### 6-11. MIC Rail Unit Replacement

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Panel.
- Disconnect the connector P17 on the MECHA I/F P.C.Board.
- 5. Remove the MIC Drive Rev Spring at the MIC Rail Unit side as shown in Fig. 6-11-1.
- 6. Unscrew the 3 screws (A) and remove the MIC Rail Unit as shown in Fig. 6-11-1.

#### (Installation)

- 1. Install the new MIC Rail Unit and reverse the previous steps.
- Confirm that the M and L cassettes touch to the MIC Rail Unit correctly.

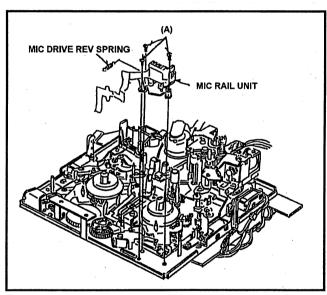


Fig. 6-11-1 Removal of MIC Rail Unit

## 6-12. S1 Post Loading Arm Unit Replacement and Adjustment

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- Remove the S5 Post Base Unit (Refer to item 6-17).
- Remove the Tension Arm Unit(Refer to item 6-18).
- 5. Unscrew the screw (A) and remove the S1 Post from Loading Rail as shown in Fig. 6-12-1.
- Remove the E-Ring (B) and remove the S1 Loading Arm Unit as shown in Fig. 6-12-1.

#### (Installation)

 Install the new S1 Loading Arm Unit and reverse the previous steps. When install the S1 Loading Arm Unit, S1 Post Loading Arm Unit Phase Adjustment should be performed as follows.

#### (Adjustment)

When install the S1 Post Loading Arm Unit, the hole (A) should be matched with the hole (B) as shown in Fig. 6-12-1.

2. After installation, confirm that the S1 Post moves smoothly on the Loading Rail.

And Tension Arm Adjustment (Refer to item 5-7), Post Height Pre-Adjustment (Refer to item 5-5) and Linearity Adjustment (Refer to item 5-18 [Tape Pass Adjustment Procedure]) should be performed.

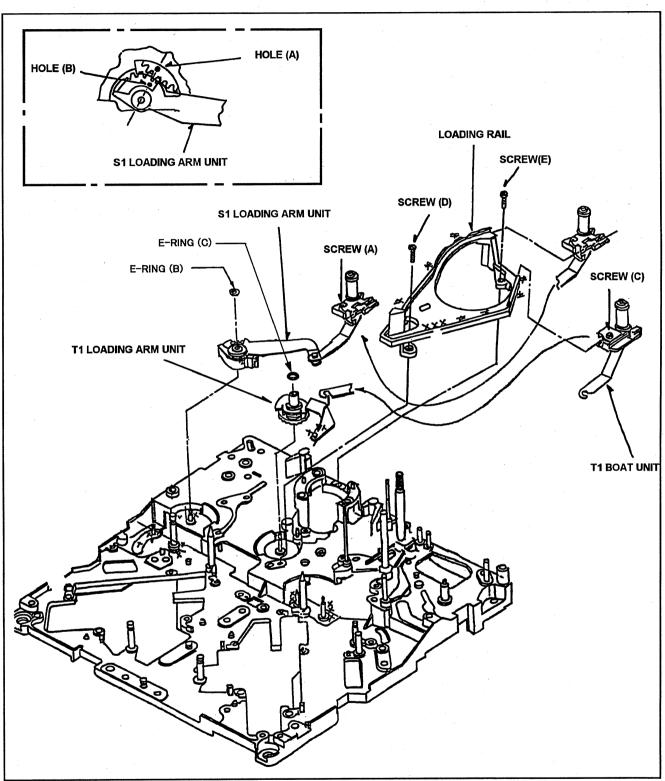


Fig. 6-12-1 Removal of S1 Post Loading Arm Unit

#### 6-13. T1 Boat Unit Replacement

#### (Removal)

- Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Unscrew the screw (C) and remove the T1 Post from the Loading Rail as shown in Fig. 6-12-1.
- 4. Hang off the T1 Boat Unit from the T1 Loading Arm Unit as shown in Fig. 6-12-1.

#### (Installation)

- Install the new T1 Boat Unit and reverse the previous steps.
- After installation, confirm that the T1 Post moves smoothly on the Loading Rail.
- Linearity adjustment (Refer to item 5-18 [Tape Pass Adjustment Procedure]) should be performed.

## 6-14.T1 Loading Arm Unit Replacement and Adjustment

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Remove the Cylinder Unit (Refer to item 6-1).
- Move the T1 Post to loading direction by manual ejecting method until the position where the screw (D) can be removed as shown in Fig. 6-12-1.
- 5. Unscrew the 2 screws (A) and (C), then remove the S1 and T1 Post from the Loading Rail as shown in Fig. 6-12-1.
- 6. Unscrew the 2 screws (D) and (E), then remove the Loading Rail as shown in Fig. 6-12-1.
- 7. Remove the E-Ring (C) and remove the T1 Loading Arm Unit as shown in Fig. 6-12-1.

#### (Installation)

 Install the T1 Loading Arm Unit and reverse the previous steps. After installation, Phase Adjustment should be performed as follows.

Note: This replacement should be performed simultaneously with Replacement of Cylinder Unit. It is convenient for Replacement of T1 Loading Arm Unit.

#### (Adjustment)

- 1. When install the T1 Loading Arm Unit, the hole (A) should be matched with the hole (B) as shown in Fig. 6-14-1.
- 2. After installation, confirm that the S1 and T1 Post move smoothly on the Loading Rail.
- Post Height Pre-adjustment (Refer to item 5-5) and Linearity Adjustment (Refer to item 5-18 [Tape Pass Adjustment Procedure]) should be performed.

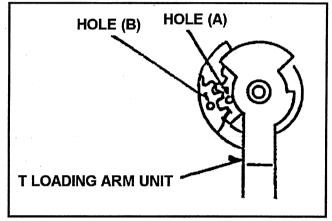


Fig. 6-14-1 Phase Adjustment of T1 Loading Arm Unit

# 6-15. Cleaner Solenoid Replacement and Adjustment

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- Disconnect the connector P48 on the MECHA I/F P.C.Board.
- 4. Unscrew the 2 screws (A) and remove the Cleaner Solenoid Unit as shown in Fig. 6-15-1.
- 5. Unscrew the 2 screws (B) and remove the Cleaner Solenoid as shown in Fig. 6-15-1.

#### (Installation)

- Install the new Cleaner Solenoid and reverse the previous steps.
- 2. After installation, Cleaner Solenoid Position Adjustment should be performed as follows.

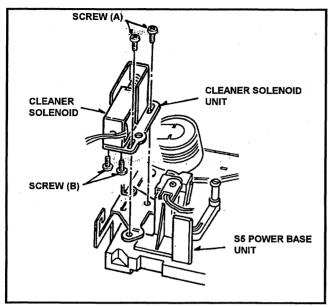


Fig. 6-15-1 Removal of Cleaner Solenoid



※ Tools Required : Eccentric Driver (VFK0357)

- 1. Press the iron core of Cleaner Solenoid.
- 2. Observe the clearance (D) between the Cleaning Arm Unit and the Cleaner Base Plate and make sure that it is within 0.5 to 0.7mm as shown in Fig. 6-15-2.
- If not, loosen the 2 screws (A) and move the Cleaner Solenoid Unit to the arrow direction (C⇔ C) by the Eccentric Driver so that the clearance (D) is within specification. Then tighten the 2 screws (A).
- 4. After adjustment, confirm as follows.
- 5. Press the iron core of Cleaner Solenoid and release it. Confirm that the Cleaning Roller returns to its original position.
- Press the iron core of the Cleaner Solenoid and rotate the Cylinder by hand. Confirm that the Cleaner Roller rotates simultaneously.

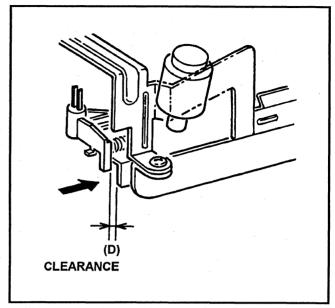


Fig. 6-15-2 Cleaner Solenoid Position Adjustment

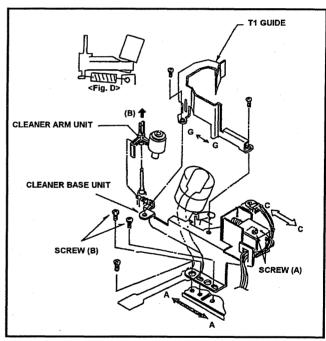


Fig. 6-15-3 Cleaner Solenoid Position Adjustment

**Note:** If the Cleaner Base Plate is moved, Cleaner Roller Position Adjustment should be performed.

## 6-15-2. Cleaner Roller Position Adjustment

X Tools Required : Eccentric Driver (VFK0357)

- 1. Observe the clearance (A) between the Cleaner Roller and the Cylinder Unit and make sure that it is within 1.0 to 1.2mm as shown in Fig. 6-15-4.
- If not, loosen the 2 screws (B) and move the Cleaner Base Plate to the arrow direction (A⇔A) by the Eccentric Driver (refer to Fig. 6-15-3) so that the clearance (A) is within specification. Then tighten the 2 screws (B).

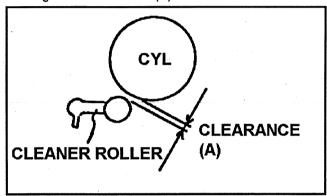


Fig. 6-15-4 Cleaner Roller Position Adjustment

# 6-16. Reel Drive Motor Unit Replacement

#### (Removal)

- 1. Remove the Top Cover.
- 2. Remove the Front Loading Unit.
- Disconnect the connector P16 on the MECHA I/F P.C.Board.
- 4. Unscrew the 2 screws (A) and remove the Reel Drive Sensor P.C.Board as shown in Fig. 6-16-1.
- 5. Unscrew the 2 screws (B) and remove the Reel Drive Motor Unit as shown in Fig. 6-16-1.

#### (Installation)

 Install the new Reel Drive Motor Unit and reverse the previous steps.

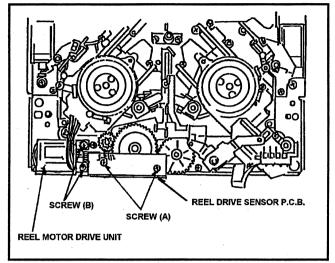


Fig. 6-16-1 Removal of Reel Drive Motor Unit

#### 6-17. S5 Post Base Unit Replacement

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Unscrew the screw (A) and remove the S5 Post Base Unit as shown in Fig. 6-17-1.

#### (Installation)

- Install the S5 Post Base Unit and reverse the previous steps. The installed position of S5 Post Base Unit is shown in Fig. 6-17-1.
- After installation, Post Height Pre-adjustment (Refer to item 5-5) and Linearity Adjustment (Refer to item 5-18 [Tape Pass Adjustment Procedure]) should be performed.

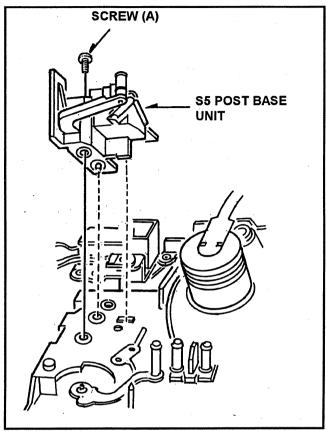


Fig. 6-17-1 Removal of S5 Post Base Unit

#### 6-18. Tension Arm Unit Replacement

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Remove the Cut Washer (A) and hang off the Tension Reg. Spring, then remove the Tension Arm Unit as shown in Fig. 6-18-1.

#### (Installation)

- 1. Install the new Tension Arm Unit and reverse the previous steps.
- 2. After installation, Tension Arm Adjustment should be performed according to the following steps.

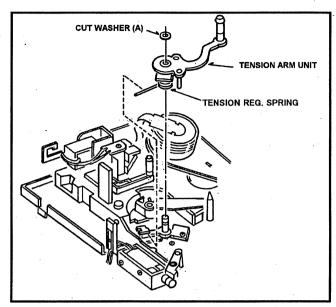


Fig. 6-18-1 Removal of Tension Arm Unit

5-8. OFFSET VOLTAGE ADJUSTMENT

5-9. NEUTRAL POSITION ADJUSTMENT

5-10. PLAY VOLTAGE ADJUSTMENT

5-11. REV VOLTAGE CONFIRMATION NG

5-12. TENSION REGULATOR SPRING ADJUSTMENT

5-13. REV TENSION CONFIRMATION NG

END

#### 6-19. Main Cam Gear Replacement

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- Remove the Pinch Solenoid Unit (Refer to item 6-8) and Loading Motor Neutral Unit (Refer to item 6-4)
- 4. Remove the Main Cam Gear as shown in Fig. 6-19-1.

#### (Installation)

- Install the Main Cam Gear so that the pin of Main Cam Arm Unit (\*) should be matched with the groove position of Main Cam Gear as shown in Fig. 6-19-1.
- 2. Reverse the previous steps.
- 3. After installation, Pinch Solenoid Position Adjustment is required (Refer to item 5-3).

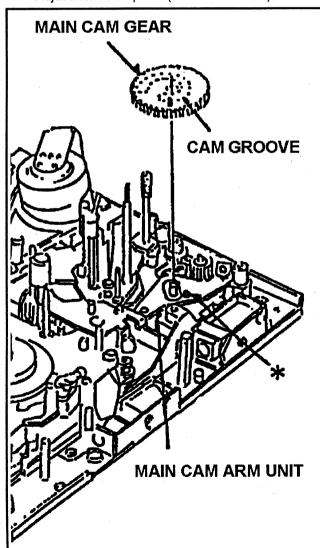


Fig. 6-19-1 Removal of Main Cam Gear

## 6-20. M-Stopper Solenoid Replacement And Adjustment

#### (Removal)

- 1. Remove the Top Cover.
- 2. Remove the Front Loading Unit.
- 3. Remove the connector P24 on the MECHA I/F P.C. Board
- 4. Unscrew the 4 screws (A) and (B) and remove the M-Stopper Solenoid as shown in Fig. 6-20-1.

#### (Installation)

- 1. Install the new M-Stopper Solenoid and reverse the previous steps.
- After installation, Position Adjustment should be performed as follows.

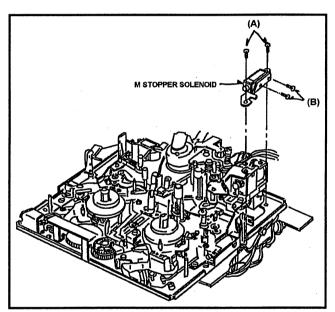


Fig. 6-20-1 Removal of M-Stopper Solenoid

#### (Adjustment)

- 1. Place the reels in the L size position.
- 2. Push the iron core of M-Stopper Solenoid by hand.
- Observe the clearance (A) between the MECHA Chassis and the M-Stopper and make sure that it is within 1.1 to 1.3mm as shown in Fig. 6-20-2.
- If not, loosen the 2 screws (A) and adjust the position of M-Stopper Solenoid so that the clearance (A) is within specification. Then tighten the 2 screws (A).

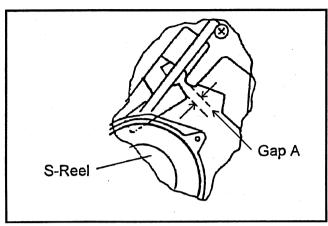


Fig. 6-20-2 M-Stopper Solenoid Adjustment

## 6-21. L-M Release Angle Unit Replacement

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Unscrew the 2 screws (A) and remove the L-M Release Angle Unit as shown in Fig. 6-21-1.

#### (Installation)

1. Install the new L-M Release Angle Unit and reverse the previous steps.

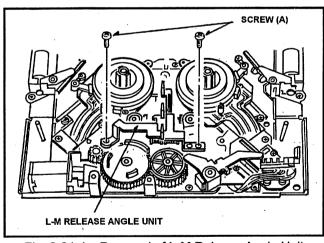


Fig. 6-21-1 Removal of L-M Release Angle Unit

## 6-22. Slide Rod Unit Replacement and Adjustment

#### (Removal)

- 1. Remove the Top Panel.
- 2. Remove the Front Loading Unit.
- 3. Remove the L-M Release Angle Unit. (Refer to item 6-21).
- 4. Remove the Reel Drive Sensor P.C.Board (Refer to item 6-16).
- 5. Remove the Cut Washer (A) and remove the Reel Drive Cam Gear as shown in Fig. 6-22-1.
- 6. Remove the Cut Washer (B) and remove the MIC Drive Arm Unit as shown in Fig. 6-22-1.
- 7. Remove the Cut Washer (C) and remove the MIC Geneva Gear as shown in Fig. 6-22-1.
- 8. Remove the Cut Washer (D) and remove the Reel Drive Arm Unit as shown in Fig. 6-22-2.
- 9. Remove the Supply and Take Up Reel Rotor Unit (Refer to item 6-3-1).
- 10. Remove the 2 Cut Washers (E) and remove the Supply and Take Up Base Drive Arm Unit.
- 11. Remove the 2 Cut Washers (F) and remove the Slide Rod Unit.

#### (Installation)

- Install the new Slide Rod Unit and reverse the previous steps.
- When install the Reel Drive Cam Gear and MIC Geneva Gear, Phase Adjustment should be performed as follows.

#### (Adjustment)

- 1. Install the MIC Geneva Gear to the Chassis.
- 2. Place the Reels in the M-Size position by hand.
- 3. Install the MIC Drive Arm Unit.
- 4. Place the MIC SW at the front position on the MIC Rail Unit (the nearest potion to the reel) by rotating the MIC Geneva Gear. Then the MIC Geneva Gear should be positioned as shown in Fig. 6-22-3.

**Note:** The protrusion of MIC DRIVE Arm Unit is positioned as shown in Fig. 6-22-3.

- Install the Reel Drive Cam Gear so that the hole of Reel Drive Cam Gear should be matched with the hole of MIC Geneva Gear as shown in Fig. 6-22-3.
- 6. Install the Cut Washer (A), (B) and (C) as shown in Fig. 6-22-1.
- ※ Point of Adjustment
- 1) Reel in the M-Size position.
- 2) MIC SW at the front position of MIC Rail Unit.
- 3) Protrusion of MIC Drive Arm Unit is positioned as shown in Fig. 6-22-3.
- Holes between Reel Drive Cam Gear and MIC Geneva Gear are matched.

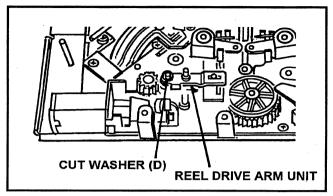


Fig. 6-22-2 Removal of Reel Drive Arm Unit

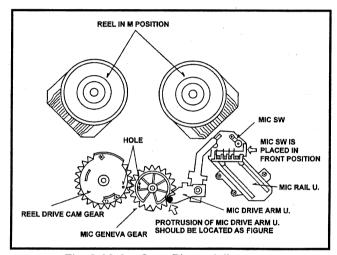


Fig. 6-22-3 Gear Phase Adjustment

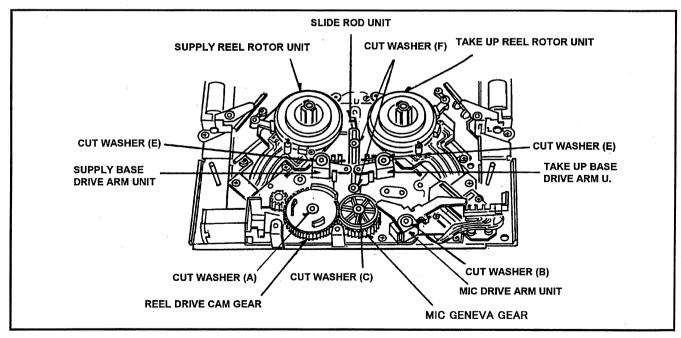


Fig. 6-22-1 Removal of Slide Rod Unit

### 6-23. T4 Post Phase Adjustment

- 1. Confirm that the hole (B) of T4 connection Gear is matched with the hole of T4 post as shown in Fig. 6-23-1.
- 2. Confirm that the portion (C) of T4 connection Gear and the hole (A) are located as shown in Fig. 6-23-1.

**Note:** These confirmations should be performed in unloading condition.

3. If not, adjust the phase of T4 post according to the above procedure.

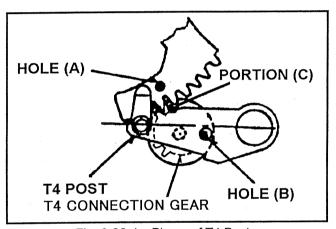


Fig. 6-23-1 Phase of T4 Post

# Technical Bullet

### Supplement to the Service Manual

**Broadcast Product** 

#### **Subject: Improvement of Cassette Compartment Unit**

Please use this supplement to	ogether with the Service Man	ual as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN 11772		VSD9606M502A	C7TRB0001
AJ-D650E V 4844	5+ V18196 51	VSD9612MJ01A	C7TRA0001
AJ-D640E	() 51	VSD9612MJ01A	C7TRA0001

#### Cassette Compartment Assembly

Symptom: 1). M or L cassette may not be inserted.

2). Cassette tape may not be ejected.

3). When the L cassette is inserted, it is ejected.

Cause

- : 1). Fixing screws for ML Detect P.C. Board and Cassette Holder Plate may loosen.
- 2). When the cassette tape may be inserted irregularly, the Intermediate Gear tooth may be shaved.
- 3). Cassette lid may not open due to the dust.

Remedy: To prevent it, the following modification is performed.

- 1). The fixing screws for ML Detect P.C. Board and Cassette Holder Plate is changed from XQN16+A2 to VHD0678 and lock tight adhesive is coated to 8 portions as shown in figures 1, 3 and 4.
- 2). The Intermediate Gear and Main Rack (L) Unit is changed as shown in figures 1 and 2.
- 3). The Lid Opener Angle (VMA9760) is added to the Side Plate L Unit as shown in figure 2.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
1	VXA5934	VXA5942	CASSETTE COMPARTMENT U	1	
25	VXA5762	VXA5944	SIDE PLATE L U	1	
27	VDG1158	VDG1254	INTERMEDIATE GEAR	111	
39	VXA5596	VXA5945	MAIN RACK (L) U	111	
69	****	VMA9760	LID OPENER ÁNGLE	0→1	
70		VHD0678	SCREW	0→6	
74	XQN16+A2		SCREW	6→0	
78		XYN2+C3	SCREW	0→2	

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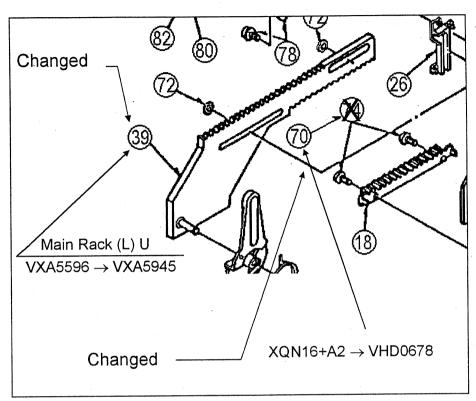


Fig. 1

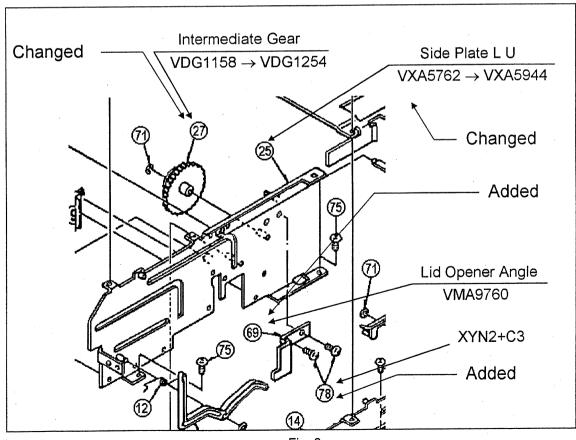


Fig. 2

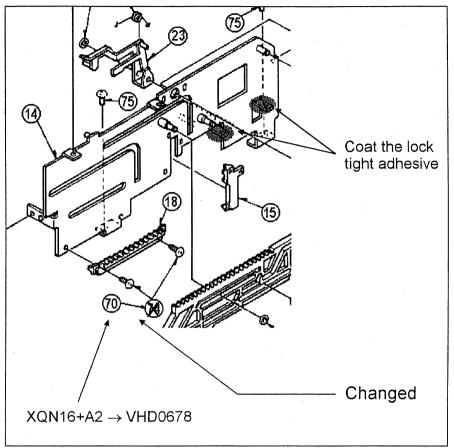


Fig. 3

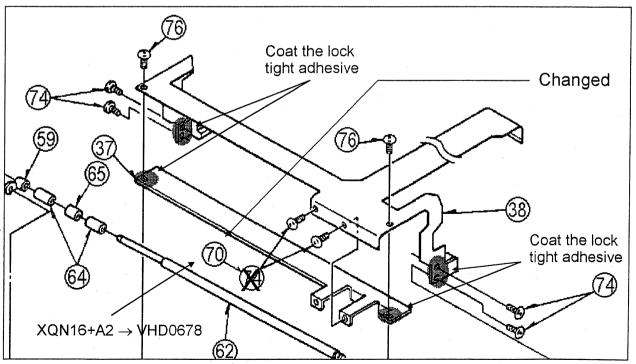


Fig. 4

# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

#### **Subject: Standardization of AC Cord**

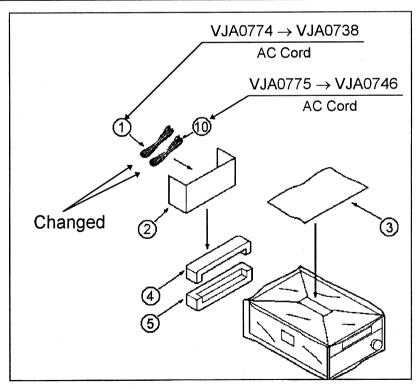
Please use this supplement t	ogether with the Service Manu	al as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D650E	52	VSD9612MJ01A	C7TRA0001
AJ-D640E	52	VSD9612MJ01A	C7TRA0001

#### Packing Parts Assembly

#### Reason for Change

- The following part(s) has(have) been changed for serviceability improvement.
- The following part(s) has(have) been changed for productivity improvement.
- The following part(s) has(have) been changed for standardization.
- ☐ The following part(s) has (have) been changed for the safety regulation.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
1	VJA0774	VJA0738	AC CORD	1	
10	VJA0775	VJA0746	AC CORD	1	



G2811HM0343

**Panasonic** 

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Order No. VSD9710SC624

V181151

# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

Subject: Introduction of New A Jack P.C. Board

Please use this supplement	together with the Service Man	ual as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D650E	54	VSD9612MJ01A/B	L6TRA0001
AJ-D640E	54	VSD9612MJ01A/B	L6TRA0001

Board: A Jack (VEP84291A)

To improve the manufacturing productivity, a new A Jack P.C. Board (VEP84291A-2/VJB84291-2) is introduced.

According to this change, resistor R140 is changed from discrete type resistor to chip type resistor as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R140	ERDS2TJ470	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	

# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

Subject: Introduction of New Power 1 P.C. Board

ease use this supplement together with the Service Manual as follows :			
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	80	VSD9606M502A/B	A7TRB0001
AJ-D650E	55	VSD9612MJ01A/B	A7TRA0001
AJ-D640E	55	VSD9612MJ01A/B	A7TRA0001

Board: Power 1 (VEP81074B)

To meet the safety regulation, a new Power 1 P.C. Board (VEP81074B-2/VJB81074-2) is introduced. According to this change, diodes D25 (MA4082H) and D26 (MA4051-M) and resistors R46 and R47 (1/4W,  $47K\Omega$ ) are added.

- 1). Parts List (Changed parts only)
- 2). Schematic Diagram

Power 1 (VEP81074B-2 / VJB81074-2)

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
D25		MA4082H	DIODE	0→1	
D26		MA4051-M	DIODE	[0→1]	
R46, R47		ERDS2TJ473	C. RESISTOR 1/4W 47K	0→2	

#### **POWER 1 SCHEMATIC DIAGRAM** 11 12 14 15 P1004 R1004 D1004 with VSC3434 VJP2824A007 P1001 VJP2638 C1032r 470 (2W) 7 AC GATE ERA22-06 AC08FGM ₹R1003 6 COLD 5 AC L1003 ليبيا D1002 3 DC+ HOT D1005 OPTION R1005 7 D1001 RBV606 L1001 1 DC-P1003 VJP2639 OPTION В 0 VJP0083-1 J2 R1024 R1023 100K (1/2W) 100K (1/2W) HOT\_SW\_IN 1 C1001# m C1002 0. 22/0U ₹390K R1022 HOT SW OUT 4 (0) 330K(1/2W) 390K(1/2W) C1008 ERA22-02 D1013 P1002 MA4240-L R1015 390k (1/2W) TO\_chassis D1012 COLD\_SW\_IN 1 C1016 470P(P)(G) J3 \* D1010 ER432-02 C1003 T $\triangle$ COLD SW OUT 4 R1009 C1004 C1017 0. 1 (B) 22 (1/2W) R1020 47 (1/2W) C1011 + 777 | C1011 | + 777 | T1018 | 550 V | U = 1 N (DSF) | (NXI ) | C1011 | 1 N (DSF) **∆** ¢1005 VCK0260M102A D R1011 470 (F) IC1003 MK1210 01023 R1007 MA4051-M ↑ \* L1002 . 680K --E ONLY /DSF D1003 41310/3001 41300/05F(F) 220025 (1(8)) E \* AC\_SW C1028 777 P1055 VJP3080 ⚠ 警告 C1031 R1006 C1015 R1030 270 (F) (XS) T10(y) /QE 100 (3W) 高圧部分があります 2 Q11\_GATE 3 Q11\_0.C.P 400V10 77 (NHE) + 2 R1002 ので直接触れないで (NHE) C1029 6800/DSF 4 IC1 VCC ください。 5 IC1 FB 6 Q12 GATE 01004, R1034 R1033 100K(1/2W) 100K(1/2W) Ref. NO AJ-D750T/P D750E لب 感電注意 ぽやけどや感電に UN1111 NON VCK0260M332A P1002 VJP2639 R1042 680K (DSF) C1003 VCK0260M222A 1 Q12\_0. C. P つながります。 D1020 MA165 R1046 VCK0260M332A 8 IC2 VCC 9 IC2 FB R1032 R1040 18K/DSF C1024 NON VCK0262K101A VCK0262K101A R1026 D1015 30K (1/2W) 390K (1/2W) C1025 NON 10 0. V. P ECQU2A683MN 47K/DSF D1021 MA4240-L C1032 ECQU2A823MN R1047 11 0. H. P 12 DC-C1007 ECEC2EB681EB ECEC2EG471XX -R-C1021 0470P (P) (G) ERA22-02 MA165 C1008 ECEC2EB681EB ECEC2EG471XX 18K/DSF D1017 R1016 22(1/2W) ELF18D850C G L1001 MA165 D1022 ETQHC2R0A ELF18D608 L1003 ELF18D604 R1031 47 (1/2W) 1020 0.1(B) R1025 33K/DSF XBA1C50NB5 XBA2C50TH15 25D637 7 33K/DS AC Primary T : EST15122R EST15367S R1017 25.52 R1019 C1013 P : EST15372T 470 (F) 1C1002 FA5311P (NXL) Н D1014 ERA22-02 ⚠ 警告 D1024 MA4051-M R1008 ① △印の部品は安全上重要な部品です。交換する時は、安全及び C1027 **上D1018** 中MA4051M 3300P 性能維持のため必ず指定の部品をご使用ください。 ₹680K-世 C1026 ⊥c103/3 ② \_\_\_\_\_ には高圧が加わっておりますので点検、修理のとき T0.082/QV T R1036 D1019 25D893 (NXL) は感電しないよう充分ご注意ください。 100K Δ /DSF -D ③ 部品交換は、電源プラグをぬいてから行ってください。 ₹104 \$68K/ØSF ④ 部品品番は、部品価格表で確認の上交換してください。 C1012 3300P/ ₹ R1013 ₹ 100K (DSF) 1. Components identified with the mark $\Delta$ have the special characteristics for safety. When replacing any of these components, use only the same type. High voltage is applied here. Pay extreme attention, when replacing. 3. When servicing, remove the power cord from the power outlet. 4. When replacing any components, confirm the correct part number with the parts list.

# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Introduction of Tape Sensor Adjustment Cassette (VFK1369)

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	83	VSD9606M502A/B	
AJ-D650E	56	VSD9612MJ01A/B	•

Board: System Control (F2:VEP86146B) - AJ-D750

System Control (F2:VEP86146E) - AJ-D650

System Control (F2:VEP86146F) - AJ-D640

Tape Sensor Adjustment Cassette (VFK1369) is introduced. According to this, the 2-2. Photo Sensor Voltage Adjustment is added to the System Control Board as follows.

There is a modification difference by the paring of the MECHA I/F and System Control Boards. Please confirm the MECHA I/F and System Control Boards version and perform the modification. Please refer to the Technical Bulletin No. VSD9710SA684.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
		VFK1369	TAPE SENSOR ADJ. CASSETTE	0→1	

<sup>\*</sup> Note \*

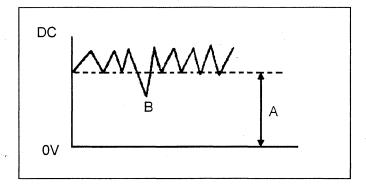
## (A). MECHA I/F Board version is VEP82106A or VEP82214A

2-2. Photo Sensor Voltage Adjustment

	is come at the angle in the second
BOARD	SYSCON (F2)
SPEC.	A = 3.0V ~ 4.3V
TP	P2-26A (S Photo), P2-25A (T Photo)
ADJUST	
INPUT	
MODE	STOP
TAPE	Tape Sensor Cassette VFK1369
M. EQ	Oscilloscope

- 1. Connect the Extension Board and the power is turned ON.
- 2. Insert the Tape Sensor Adjustment Cassette. (VFK1369)
- Measure the P2-25A and P2-26A with the oscilloscope and then confirm that the S and T DC levels

   (A) are within 3.00 ~ 4.3V.
- 4. If the S and T DC levels are out of specification, resistor values R11 (T side) and R12 (S side) are changed from  $3.3 \mathrm{K}\Omega$  to  $1 \mathrm{K}\Omega$  after power OFF and then confirm that the DC levels are within specification.
- 5. If the S and T DC levels are out of specification, resistor values R11 (T side) and R12 (S side) are changed from 1K $\Omega$  to 820 $\Omega$  after power OFF and then confirm that the DC levels are within specification.



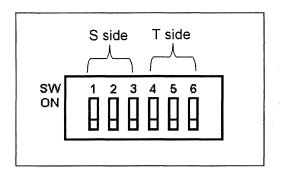
#### (B). MECHA I/F Board version is VEP82216A

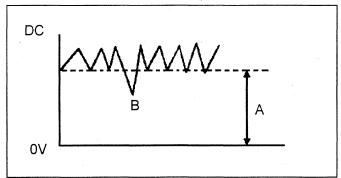
2-2. Photo Sensor Voltage Adjustment

BOARD	SYSCON (F2)
SPEC.	A = 3.0V ~ 4.3V
TP	P2-26A (S Photo), P2-25A (T Photo)
ADJUST	SW200 (MECHA I/F)
INPUT	
MODE	STOP
TAPE	Tape Sensor Cassette VFK1369
M. EQ	Oscilloscope

- Insert the Tape Sensor Adjustment Cassette. (VFK1369)
- 2. Set the SW200 on the MECHA I/F Board so that the S and T DC levels become within  $3.00 \sim 4.3 \text{V}$ .

S Photo	T Photo		Up A Voltage Down						
SW-1	SW-4	OFF	ON	OFF	ON	OFF	ON	OFF	ON
SW-2	SW-5	OFF	OFF	ON	ON	OFF	OFF	ON	0
SW-3	SW-6	OFF	OFF	OFF	OFF	07	ON	ON	02
Resisto	r Value	8200	3300	1050	880	750	660	460	420





# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Introduction of New MECHA I/F P.C. Board

Please use this supplement together with the Service Manual as follows :								
Model No.	Bulletin No.	Order No.	Effective from					
AJ-D750E/EN	84	VSD9606M502A/B	C7TRB0001					
AJ-D650E	57	VSD9612MJ01A/B	C7TRA0001					
AJ-D640E	57	VSD9612MJ01A/B	C7TRA0001					

Board: System Control (F2:VEP86146B) - AJ-D750 System Control (F2:VEP86146E) - AJ-D650 System Control (F2:VEP86146F) - AJ-D640 MECHA I/F (VEP82216A)

To improve the manufacturing productivity and serviceability, a new MECHA I/F P.C. Board (VEP82216A / VJB82216) is introduced. This Supplement Service Manual contains the following items.

- 1). Parts List
- 2). Schematic Diagram
- 3). P.C. Board Layout

According to this change, the following modification is performed.

- 1). MECHA I/F Sub Board (VEP82210A) is absorbed in the new P.C. Board.
- 2). Resistors R11 and R12 are changed from 1/10W,  $3.3K\Omega$  to 1/10W,  $8.2K\Omega$  on the foil side of the System Control Board.
  - \* Note \* There is a modification difference by the paring of the MECHA I/F and System Control Boards as shown below. Please confirm the MECHA I/F and System Control Boards version and perform the modification.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R11, 12	ERJ6GEYJ332	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K	2	

#### AJ-D750 - VEP86146B

Ref. No.	Schemation	Diagram	P.C. E	Board
	Page	Area No.	Page	Area No.
R11, R12	2-31	C-8 (1/14)	3-4	C-2 (F)

#### AJ-D650/D640 - VEP86146E/F

Ref. No.	Schemati	c Diagram	P.C. Board			
	Page	Area No.	Page	Area No.		
R11, R12	2-31	E-5 (1/14)	3-4	C-2 (F)		

10164498550375053102295021

## **Panasonic**

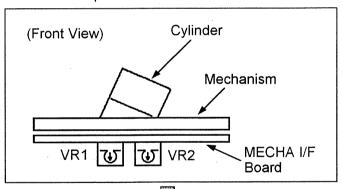
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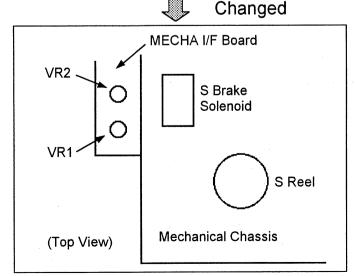
- a). MECHA I/F Board is VEP82106A or VEP82214A and the R11 and R12 on the System Control Board are not 8.2K $\Omega$ .
  - Photo Sensor Voltage Adjustment (A) is performed. If the voltage specification A is not 3.0  $\sim$  4.3VDC, resistors R11 and R12 are changed from  $3.3 \text{K}\Omega$  to  $1 \text{K}\Omega$  first and then to  $820 \Omega$  as follows until the voltage specification is within  $3.0 \sim 4.3 \text{VDC}$ .
- b). MECHA I/F Board is VEP82106A or VEP82214A and the R11 and R12 on the System Control Board are 8.2KΩ.
  - Photo Sensor Voltage Adjustment (A) is performed. If the voltage specification A is not 3.0 ~ 4.3VDC, resistors R11 and R12 are changed as follows until the voltage specification is within 3.0 ~ 4.3VDC.  $8.2K\Omega \rightarrow 3.3K\Omega \rightarrow 1K\Omega \rightarrow 820\Omega$
- c). MECHA I/F Board is VEP82216A and the R11 and R12 on the System Control Board are not 8.2K $\Omega$ . Photo Sensor Voltage Adjustment (B) is performed by the Dip Switch after changing the resistors R11 and R12 from 3.3K $\Omega$  to 8.2K $\Omega$ .
- d). MECHA I/F Board is VEP82216A and the R11 and R12 on the System Control Board are  $8.2K\Omega$ . Photo Sensor Voltage Adjustment (B) is performed and R11 and R12 value changes are not required.
  - 3). The position of the Tension Sensor Voltage VR is changed to adjust easy as shown below.

5-8. Tension Arm Offset Voltage Adjustment

Specification	2.5 ± 0.5 (V)
Mode	EJECT
Test Point	TP201 (Servo Board : F1)
Equipment	Digital Volt Meter
Adjustment	VR1 (MECHA I/F Board : Bottom of Mechanism)

1. Adjust VR1 so that the DC voltage at TP201 is within the specification in EJECT mode.

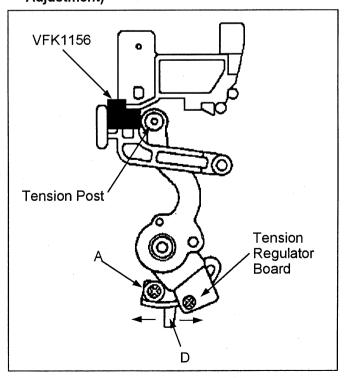




5-10. Tension Arm PLAY Voltage Adjustment

Specification	$3.8 \pm 0.05$ (V)
Mode	STOP
Test Point	TP201 (Servo Board : F1)
Equipment	Digital Volt Meter
Adjustment	VR2 (MECHA I/F Board : See 5-8. Offset Voltage Adjustment)
Tool	VFK1156

- Set the VFK1156 at the suitable position. (Tension Arm Tool: Play, Black color)
- 2. Place into the loading mode without a tape.
- 3. Adjust VR2 so that the specification of TP201 in STOP mode is within the specification.
  (Refer to item 5-8. Tension Arm Offset Voltage Adjustment)

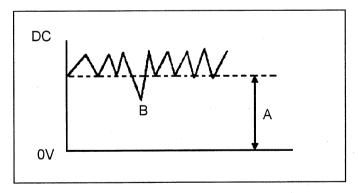


- 4). As the tape beginning/end detect photo sensor voltage may be out of specification due to the tolerance of the parts, the Dip Switch SW200 for the photo sensor voltage adjustment is added on the MECHA I/F Board. According to this, the Photo Sensor Voltage Adjustment is added to the System Control Board.
- (A). MECHA I/F Board version is VEP82106A or VEP82214A

2-2. Photo Sensor Voltage Adjustment

BOARD	SYSCON (F2)
SPEC.	A = 3.0V ~ 4.3V
TP	P2-26A (S Photo), P2-25A (T Photo)
ADJUST	
INPUT	
MODE	STOP
TAPE	Tape Sensor Cassette VFK1369
M. EQ	Oscilloscope

- 1. Connect the Extension Board and the power is turned ON.
- 2. Insert the Tape Sensor Adjustment Cassette. (VFK1369)
- 3. Measure the P2-25A and P2-26A with the oscilloscope and then confirm that the S and T DC levels (A) are within 3.00 ~ 4.3V.
- 4. If the S and T DC levels are out of specification, resistor values R11 (T side) and R12 (S side) are changed from  $3.3 \mathrm{K}\Omega$  to  $1 \mathrm{K}\Omega$  after power OFF and then confirm that the DC levels are within specification.
- 5. If the S and T DC levels are out of specification, resistor values R11 (T side) and R12 (S side) are changed from  $1K\Omega$  to  $820\Omega$  after power OFF and then confirm that the DC levels are within specification.



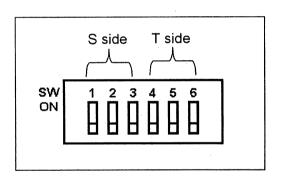
#### (B). MECHA I/F Board version is VEP82216A

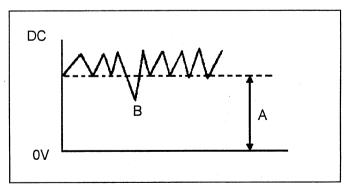
2-2. Photo Sensor Voltage Adjustment

I IIO	to consor voltage / ajastinont
BOARD	SYSCON (F2)
SPEC.	A = 3.0V ~ 4.3V
TP	P2-26A (S Photo), P2-25A (T Photo)
ADJUST	SW200 (MECHA I/F)
INPUT	
MODE	STOP
TAPE	Tape Sensor Cassette VFK1369
M. EQ	Oscilloscope

- 1. Insert the Tape Sensor Adjustment Cassette. (VFK1369)
- 2. Set the SW200 on the MECHA I/F Board so that the S and T DC levels become within 3.00 ~ 4.3V.

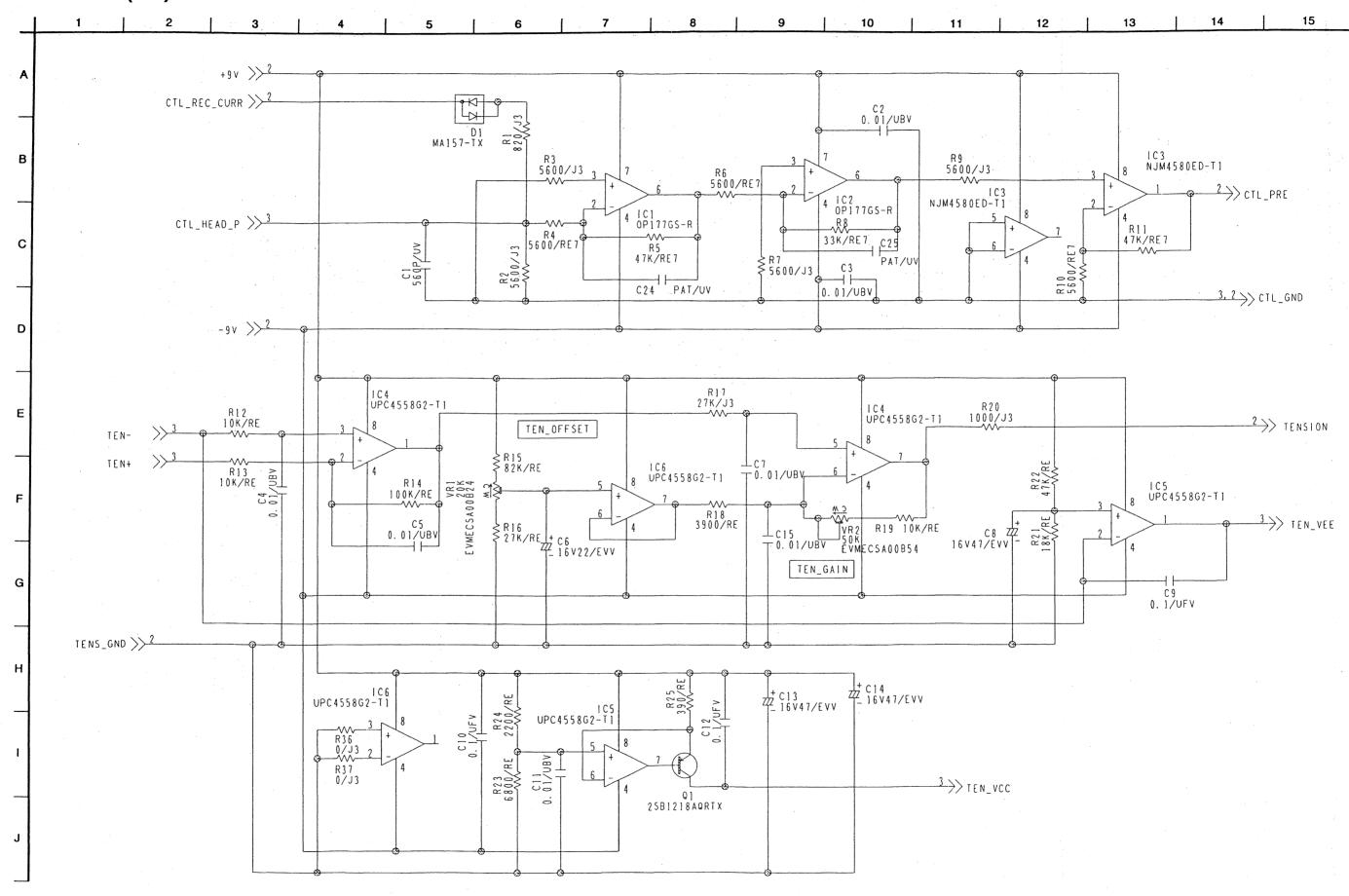
S Photo	T Photo		Up A Voltage Down						
SW-1	SW-4	OFF	ON	OFF	ON	OFF	00	OFF	0
SW-2	SW-5	OFF	OFF	ON	ON	OFF	OFF	ON	ON
SW-3	SW-6	OFF	OFF	OFF	OFF	ON	ОИ	NO	ON
Resistor Value		8200	3300	1050	880	750	660	460	420



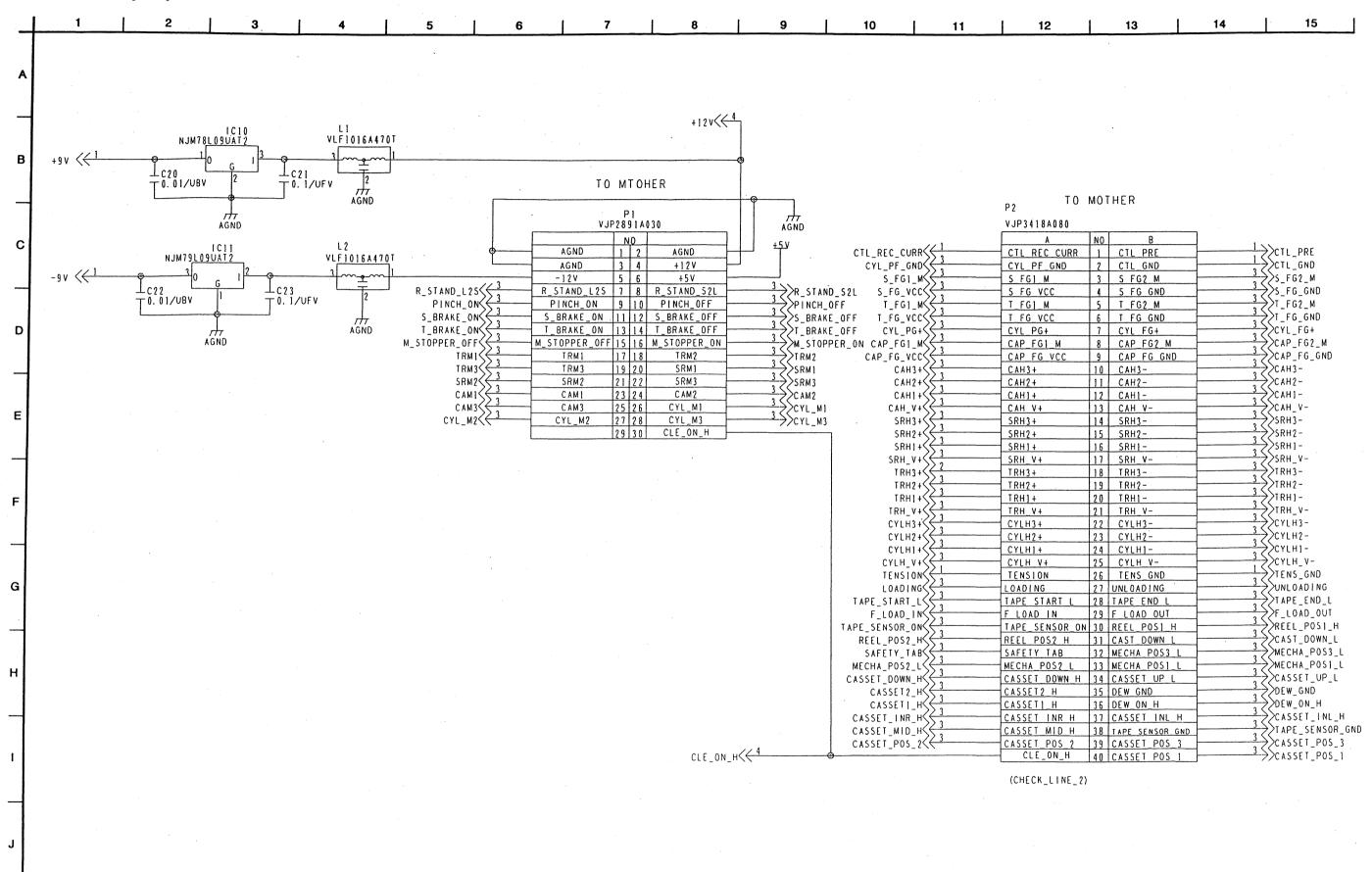


Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & Descr	iption	Pcs	Remarks
				R9		M. RESISTOR CH 1/16W		1	
	VEP82216A	MECH I/F P. C. BOARD 1 (	RTL)	R10			5. 2K	1	<u> </u>
				R11		M. RESISTOR CH 3W	47K	1	
	ENIVIUEAL IOV	C. CAPACITOR CH 50V 560P 1		R12, 13		M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	10K 100K	1	
C1 C2-C5		C. CAPACITOR CH 50V 0.01U 4		R15		M. RESISTOR CH 1/10W	82K	1	
		E. CAPACITOR CH 16V 22U 1		R16	ERJ6RBD273	M. RESISTOR CH 1/10W	27K	1	
C7		C. CAPACITOR CH 50V 0. 01U 1		R17		M. RESISTOR CH 1/16W	27K	1	İ
		E. CAPACITOR CH 16V 47U 1		R18	ERJ6RBD392	M. RESISTOR CH 1/10W	3. 9K	1	
C9, 10	ECUX1E104ZFV	C. CAPACITOR CH 25V O. 1U 2		R19	ERJ6RBD103	M. RESISTOR CH 1/10W	10K	1	
C11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1		R20		M. RESISTOR CH 1/16W	1K	1	
C12		C. CAPACITOR CH 25V 0.1U 1		R21		M. RESISTOR CH 1/10W	18K	1	
		E. CAPACITOR CH 16V 47U 2		R22		M. RESISTOR CH 1/10W	47K	1	
		C. CAPACITOR CH 50V 0. 01U 1		R23		M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	6. 8K	1	
020		C. CAPACITOR CH 50V 0.01U 1		R24 R25		M. RESISTOR CH 1/10W	2. 2K 390	1	
		C. CAPACITOR CH 25V 0. 1U 1 C. CAPACITOR CH 50V 0. 01U 1		R36, 37		M. RESISTOR CH 1/16W	0	2	
		C. CAPACITOR CH 25V 0.1U 1		R100		M. RESISTOR CH 1/16W	22K	1	
		C. CAPACITOR CH 25V 0. 1U 1		R101		M. RESISTOR CH 1/8W	1K	1	
		E. CAPACITOR CH 16V 47U 1		R102		M. RESISTOR CH 1/10W	1K	1	
C102	ECA1HEN101	E. CAPACITOR 50V 100U 1		R103		M. RESISTOR CH 1/16W	330K	1	
C103		C. CAPACITOR CH 50V 0. 01U 1		R104		M. RESISTOR CH 1/16W	22K	1	
C104		E. CAPACITOR CH 16V 10U 1		R105		M. RESISTOR CH 1/8W	1K	1	
C200-02	ECUX1H101JCV	C. CAPACITOR CH 50V 100P 3		R200		M. RESISTOR CH 1/10W	5. 6K	1	
	W4162	DIODE .		R201		M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	1. 2K 820	1	<del> </del>
D1 00-02	MA157 MA738	DIODE 1		R202 R203		M. RESISTOR CH 1/10W	5. 6K	'	
D100-02	mA / 38	3		R204		M. RESISTOR CH 1/10W	1. 2K	1	
IC1, C2	0P177GS	IC 2		R205		M. RESISTOR CH 1/10W	820	1	
	NJM4580ED	10 1							
	UPC4558G2	IC 3		SW200	VSS023706	SWITCH		1	
1C10	NJM78LO9UA	10 1							
	NJM79L09UA	10 1		VR1	EVMEGSA00B24		20K	1	
10100	MC14538BF	10 1		VR2	EVMEGSA00B54	V. RESISTOR	50K	1	
								<u> </u>	
		FILTER 2						├	
L100	VLP0133	COIL		<b></b>				┢	1
P1	VJP2891A030	CONNECTOR (MALE) 1						<del>                                     </del>	
P2		CONNECTOR (MALE) 1							
P11	VJP3172D002	CONNECTOR (MALE) 1							
P12	VJP3172D005	CONNECTOR (MALE) 1							
P13	VJP3172D002	CONNECTOR (MALE) 1							
P14		CONNECTOR (MALE) 1						H	
P15	VJP3518B002	CONNECTOR (MALE) 1		<b></b>				-	
P16	VJP3518B003 VJS3801B010	CONNECTOR (MALE) 1 CONNECTOR (FEMALE) 1		<del> </del>				$\vdash$	
P18	VJP3518B002	CONNECTOR (MALE)		<del> </del>					
P19	VJP3172D002	CONNECTOR (MALE) 1							
P20	VJP3518B003	CONNECTOR (MALE) 1							
P21	VJP3518B002	CONNECTOR (MALE) 1							
P22	VJP3172D004	CONNECTOR (MALE) 1							
P24		CONNECTOR (MALE) 1						L.	
P25	VJP1230T	CONNECTOR (MALE) 3P 1						L	
P26	VJP1236T	CONNECTOR (MALE) 9P 1						H	<b></b>
P30	VJP3172D003 VJP3172D004	CONNECTOR (MALE) 1  CONNECTOR (MALE) 1						-	
P32 P33	VJS3406B015	CONNECTOR (FEMALE)						$\vdash$	
P34, 35	VJS2889A017	CONNECTOR (FEMALE) 2		<b></b>				Т	
P36	VJS3406B019	CONNECTOR (FEMALE) 1	***************************************					$\vdash$	
P41	VJP3172D002	CONNECTOR (MALE) 1							
P48	VJP3125B002	CONNECTOR (MALE) 1							
								L	
Q1	2SB1218A-R	TRANSISTOR 1						<u> </u>	
Q100, 01	2SB766-R	TRANSISTOR 2						Ы	
00400 0:	1,00014	TRANSPORTED DESIGNATION						<u> </u>	
QR100, 01	UN2214	TRANSISTOR-RESISTOR 2						H	
R1	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820 1		<del></del>				Н	
R2, R3	<del></del>	M. RESISTOR CH 1/16W 5. 6K 2		<b> </b>					
R4	ERJ3RBD562	M. RESISTOR CH 3W 5.2K 1						П	
R5	ERJ3RBD473	M. RESISTOR CH 3W 47K 1							
R6	ERJ3RBD562	M. RESISTOR CH 3W 5.2K 1							
R7		M. RESISTOR CH 1/16W 5.6K 1							
R8	ERJ3RBD333	M. RESISTOR CH 3W 33K 1							
	L							Щ	
		1	1	1	1	i e		i	<i>i</i>

### MECHA IF (1/4) SCHEMATIC DIAGRAM

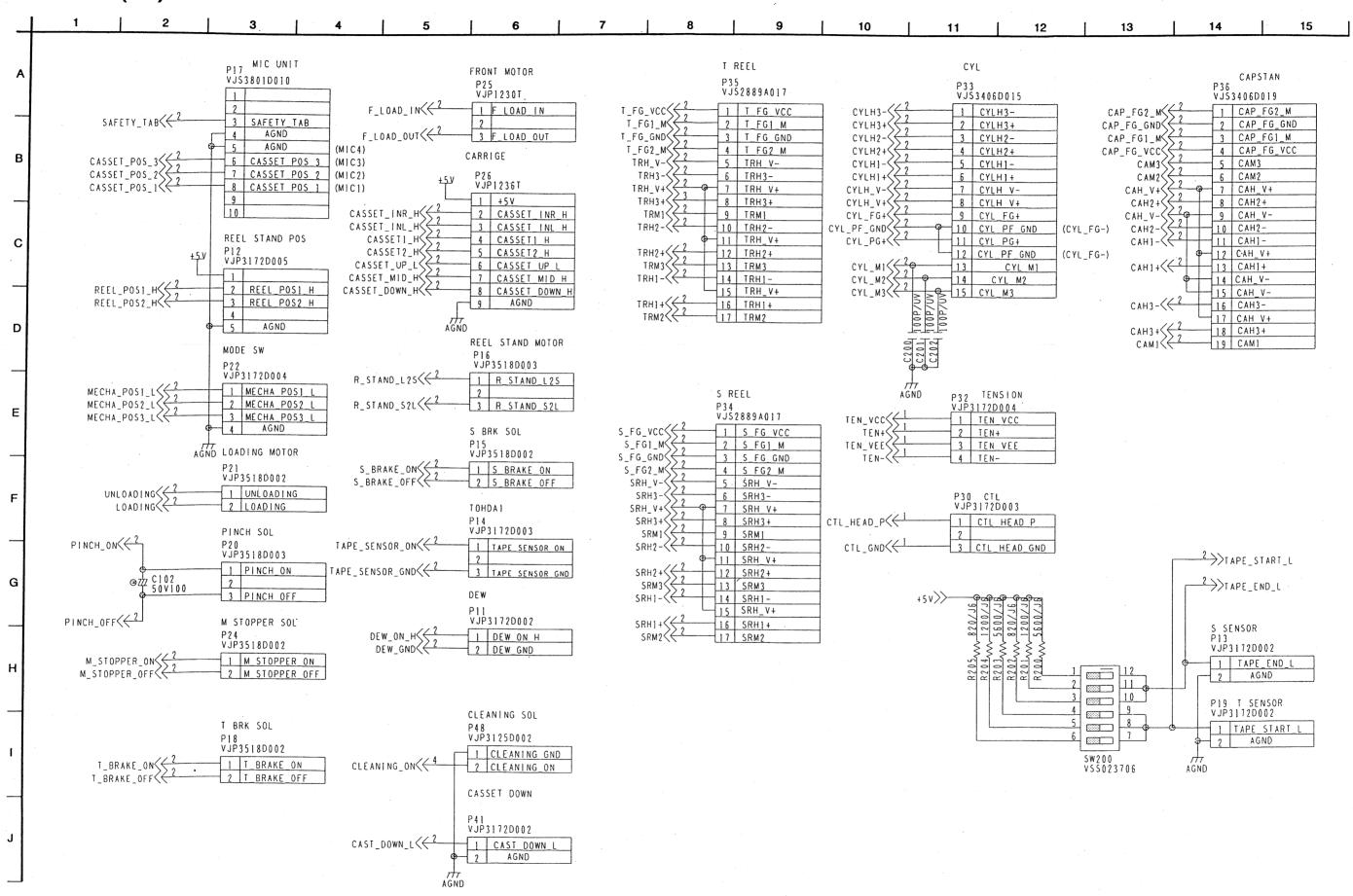


### MECHA IF (2/4) SCHEMATIC DIAGRAM

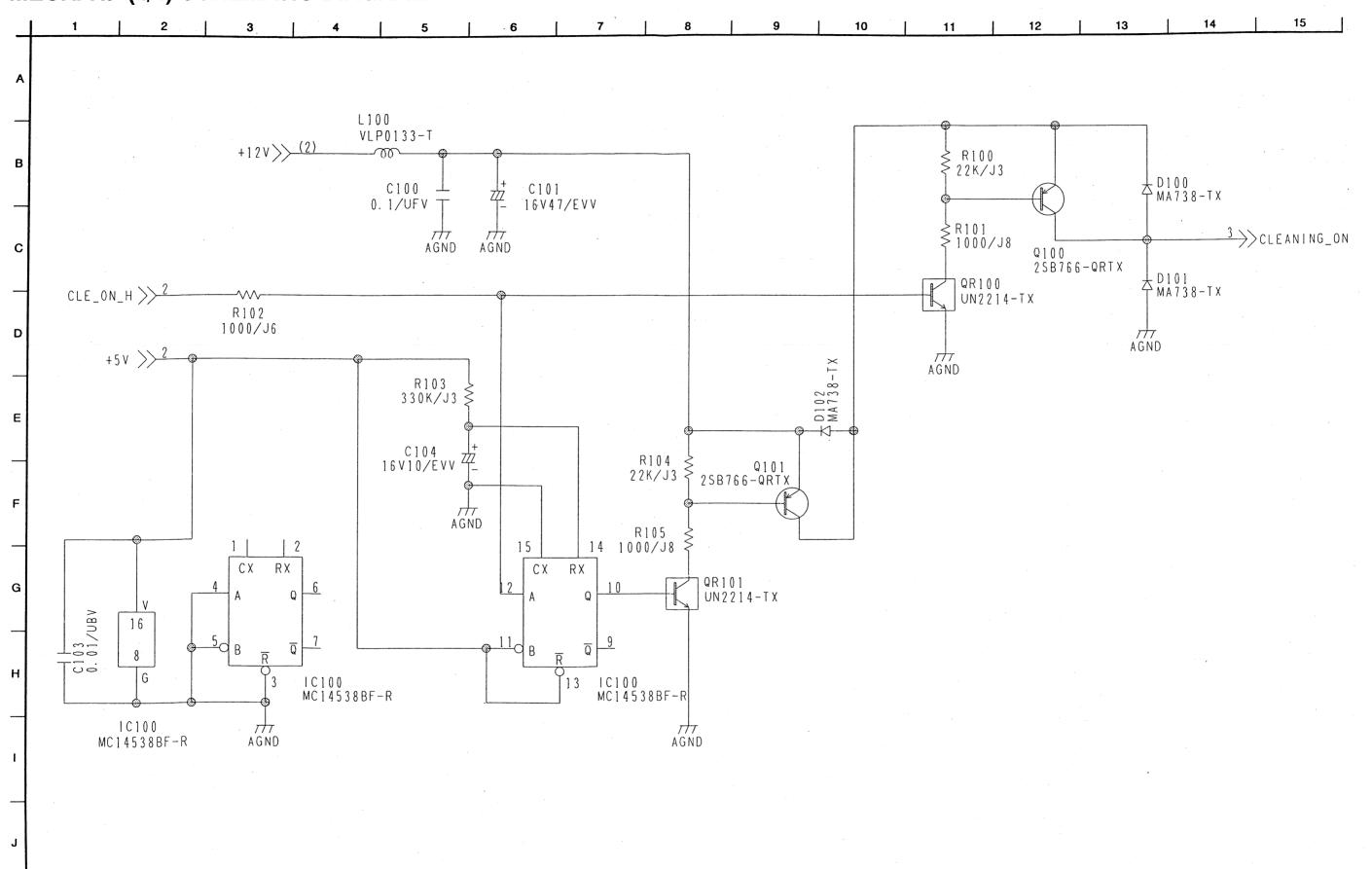


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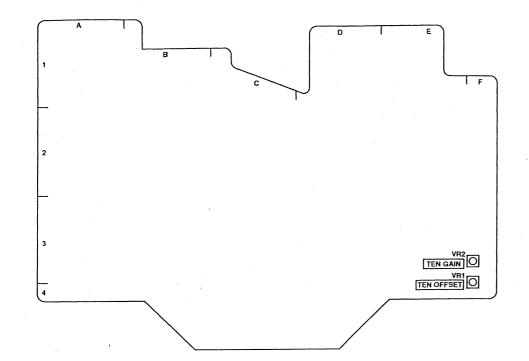
### MECHA IF (3/4) SCHEMATIC DIAGRAM



## MECHA IF (4/4) SCHEMATIC DIAGRAM

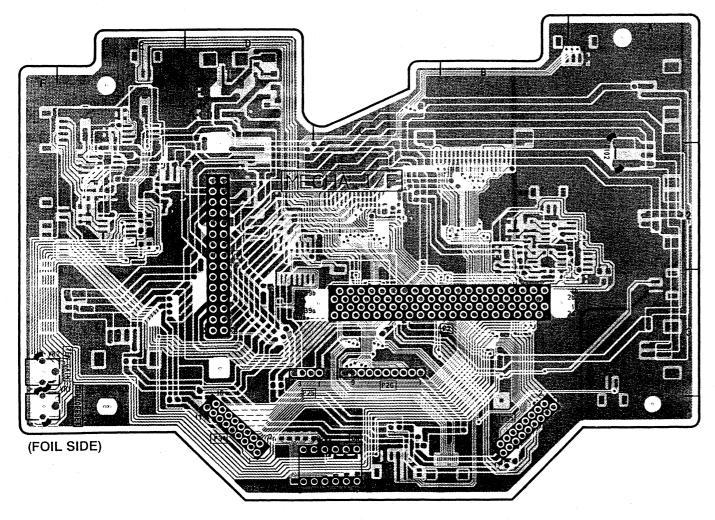


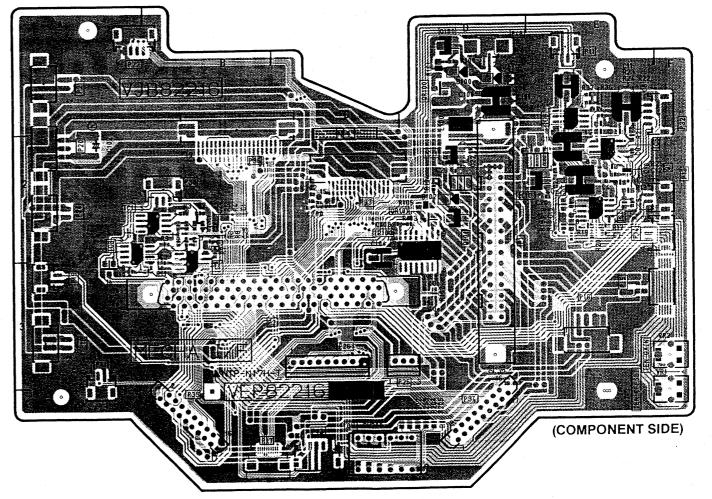
## MECHA I/F P.C.BOARD (VEP82216A)



INTERFACE C.B.A.		
(FOIL SIDE)		
Adjustment		
VR1	F-4	
VR2	F-3	
Connector		
P1	D-2	
P2	B-3	
P25	D-3 .	
P26	C-3	
P34	D-4	
P35	B-4	
ADDRESS INFORMATION		

MECHANISM INTERFACE C.B.A. (COMPONENT SIDE)				
Q1	F-2	P12	C-4	
Q100	D-1	P13	F-2	
Q101	D-2	P14	E-2	
Transistor & Resistor		P15	E-3	
QR100	D-1	P16	E-3	
QR101	D-2	P17	B-4	
Integrated Circuit		P18	A-3	
IC1	A-2	P19	A-3	
IC2	B-3	P20	A-2	
IC3	A-2	P21	A-1	
IC4	E-2	P22	A-1	
IC5	F-2	P24	A-2	
IC6	E-1	P25	D-3	
IC10	E-2	P26	C-3	
IC11	D-2	P30	B-2	
IC100	C-2	P32	F-1	
Adjustment		P33	C-2	
VR1	F-3	P34	D-4	
VR2	F-3	P35	B-4	
Connector		P36	B-2	
P1	D-2	P41	A-3	
P2	B-3	P48	D-1	





3-18

## Supplement to the Service Manual

**Broadcast Product** 

### Subject: Improvement of Short Protect Circuit

	5 11 21 11	ual as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	85	VSD9606M502A	C7TRB0001
AJ-D650E √	58	VSD9612MJ01A	C7TRA0001
AJ-D640E √	58	VSD9612MJ01A	C7TRA0001

Board: Power 1 (VEP81074B)

Symptom: When the 5V line is shorted, 12V line may not be shut down.

Cause : Due to the malfunction of the Short Protect Circuit.

Remedy: To prevent it, the following modification is performed.

1). Change resistor R2 from 1/4W,  $10K\Omega$  to 1/4W,  $4.7K\Omega$  on the component side.

2). Change resistors R46 and R47 from 1/4W, 47KΩ to 1/4W, 18KΩ on the component side.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R2	ERDS2TJ103	ERDS2FJ472	C. RESISTOR 1/4W 4.7K	1	
R46, 47	ERDS2FJ473	ERDS2FJ183	C. RESISTOR 1/4W 18K	2	

Ref. No.	Schematic Diagram		matic Diagram P.C. Board	
	Page	Area No.	Page	Area No.
R2	2-185	C-3		
R46	2-185	B-3	no second	
R47	2-185	B-3		

## Supplement to the Service Manual

**Broadcast Product** 

### Subject : Reduction of Noise from Outside

Please use this supplement together with the Service Manual as follows :				
Model No.	Bulletin No.	Order No.	Effective from	
AJ-D750E/EN	86	VSD9606M502A	C7TRB0001	
AJ-D650E √	59	VSD9612MJ01A	C7TRA0001	
AJ-D640E √	59	VSD9612MJ01A	C7TRA0001	

Board: Power 1 (VEP81074B)

To have a margin of the noise from outside, transistor Q5 is changed from 2SD637 to 2SD637-Q. \* Note \*

This modification is only effective for the P.C. Board version VEP81074B-2/VJB81074-2.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
Q5	2SD637	2SD637-Q	TRANSISTOR	1	

## Supplement to the Service Manual

**Broadcast Product** 

### Subject: Improvement of Vector Adjustment Range

Please use this supplement together with the Service Manual as follows:					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D650E	60	VSD9612MJ01A/B	E7TRA0001		
AJ-D640E	60	VSD9612MJ01A/B	E7TRA0001		

Board: VOUT (F4:VEP83352B)

Symptom: Vector Adjustment cannot be performed at the Composite OUT.

Cause : Vector Adjustment range is narrow.

Remedy: To widen the Vector Adjustment range, a trimmer VC500 is changed from ECV1ZW20X53T to

ECV1ZW30X53T on the component side.

	Part Number					
	Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
Ī	VC500	ECV1ZW20X53T	ECV1ZW20X53T	TRIMMER	1	

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
VC500	2-51	B-7 (7/16)	3-5	I-3 (C)

## Supplement to the Service Manual

**Broadcast Product** 

### Subject: Standardization of Fixing Screws for Power 2 P.C. Board

ase use this supplement to	gether with the Service Man	ual as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	87	VSD9606M502A/B	L6TRA0001
AJ-D650E √	61	VSD9612MJ01A/B	L6TRA0001
AJ-D640E √	61	VSD9612MJ01A/B	L6TRA0001

Board: Power 2 (VEP81075B)

#### Reason for Change

- The following part(s) has(have) been changed for serviceability improvement.
- The following part(s) has(have) been changed for productivity improvement.
- The following part(s) has(have) been changed for standardization.
- ☐ The following part(s) has (have) been changed for the safety regulation.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
	XYN3+F8FZS	XYN3+C8FZS	SCREW	4	



## Supplement to the Service Manual

**Broadcast Product** 

### Subject : Change of E-ring

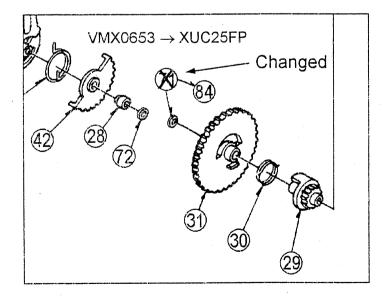
Please use this supplement toget			
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	88	VSD9606M502A	D7TRB0001
AJ-D650E	63	VSD9612MJ01A	D7TRA0001
AJ-D640E	63	VSD9612MJ01A	D7TRA0001
AJ-LT75E	9	VSD9707M602A	G7TNA0001
AJ-D230E	9	VSD9708M605	I7TDA0001

#### Cassette Compartment Assembly

#### Reason for Change

- The following part(s) has (have) been changed for serviceability improvement.
- The following part(s) has (have) been changed for productivity improvement.
- The following part(s) has (have) been changed for standardization.
- The following part(s) has (have) been changed for the safety regulation.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
71	VMX0653		CUT WASHER	1-→0	
84		XUC25FP	E-RING	0-→1	



TM3520

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## Supplement to the Service Manual

**Broadcast Product** 

## Subject : Improvement of Cassette Compartment Unit

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	89	VSD9606M502A	D7TRB0001
AJ-D650E	64	VSD9612MJ01A	D7TRA0001
AJ-D640E	64	VSD9612MJ01A	D7TRA0001
AJ-LT75E	10	VSD9707M602A	G7TNA0001
AJ-D230E	10	VSD9708M605	17TDA0001

### Cassette Compartment Assembly

Symptom: L cassette may not fall down.

: When the L cassette is inserted, the label attached side of the cassette tape falls down due to the

tolerance of the Cassette Sub Rail slot and then it is not inserted correctly.

Remedy: To improve the cassette insertion, the Sub Rail (R) and (L) are changed as shown in figures 1 and 2.

Original Part No.	New Part No.	Part Name & Descriptions	I See I	
VXA5942	VXA5979		PCS	Remarks
VMI 2A51			1	
		_ ( · · /	1 1	
VIVILZA46	VIVIL3281	SUB RAIL (L)	111	
		VXA5942 VXA5979 VML2A51 VML3282	VXA5942         VXA5979         CASSETTE COMPARTMENT U           VML2A51         VML3282         SUB RAIL (R)	VXA5942         VXA5979         CASSETTE COMPARTMENT U         1           VML2A51         VML3282         SUB RAIL (R)         1

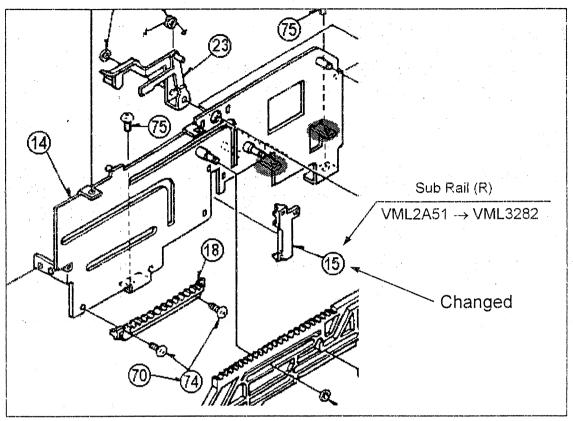


Fig. 1

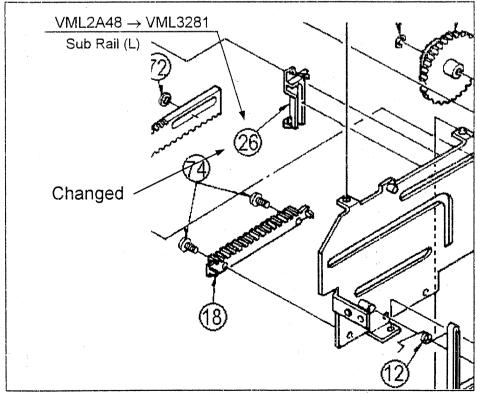


Fig. 2

### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Introduction of New REC PB P.C. Board

ease use this supplement together with the Service Manual as follows :								
Model No.	Bulletin No.	Order No.	Effective from					
AJ-D750E/EN	90	VSD9606M502A/B	E7TRB0001					
AJ-D650E	65	VSD9612MJ01A/B	E7TRA0001					
AJ-D640E	65	VSD9612MJ01A/B	E7TRA0001					

Board: REC PB (F5:VEP83353B)

To improve the manufacturing productivity and introduce the new function, a new F5 REC PB P.C. Board (VEP83353B-2 / VJB83353-2) is introduced. This Technical Bulletin contains the following items.

- 1). Parts List
- 2). Schematic Diagram
- 3). P.C. Board Layout

#### < AJ-D750 >

According to this change, the following functions are introduced.

- 1). EE TEST MODE of the VIDEO ADJUST on the Service Menu can be available.
- 2). New TAPE CNT LSI is introduced.

VSI2278G

P1.07:65CF

100734919102435048

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<sup>\*</sup> Note \* AV PROM must be up-graded more than version P1.07 at the same time. This AV PROM has been introduced from October 1996 production. Please refer to the Technical Bulletin No. VSD9701SA631.

	r		_			1			1	1
Ref. No.	Part No.	Part Name & Description	Pcs				Part Name & Desc			
1 2 2 2 2	and the garage			C3441		ECUM1H102JCN	C. CAPACITOR CH 50V	1000P	1	
	VEP83353B	F5 REC PB P. C. BOARD	1				C. CAPACITOR CH 25V	0. 1U	4	` <u> </u>
				C3451	-58	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 10	8	
	11.1			C3459		ECUM1H103KBN	C. CAPACITOR CH 50V	0. 01U	1	L. P. Carlotte
C3101-09	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	9	C3460	61	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 1U	2	!
C3121	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U	1	C3471	-77	ECUM1E104ZFN	C. CAPACITOR CH 25V	. O. 1U	7	1
C3122	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	. 1	C3478		ECUM1H102JCN	C. CAPACITOR CH 50V	1000P	1	
C3123	ECUM1H331JCN	C. CAPACITOR CH 50V 330P	1	C3483	-86	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 1U	4	
03124	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	C3491	95	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 1U	5	i .
C3125, 26		C. CAPACITOR CH 25V 0.1U	2	C3501		ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 1U	1	
C3127	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	- 1	C3502	-04	ECUM1H103KBN	C. CAPACITOR CH 50V	0. 01U	3	
C3128		C. CAPACITOR CH 25V 0.1U	1	C3506		ECUM1H103KBN	C. CAPACITOR CH 50V	0. 01U	1	
C3129		E. CAPACITOR CH 25V 3.3U	1	C3509			C. CAPACITOR CH 25V	0. 1U	+	
C3130		E. CAPACITOR CH 16V 47U	-	C3510			E. CAPACITOR CH 16V	47U	-	
C3131		C. CAPACITOR CH 25V 0.1U	1	C3511	_		E. CAPACITOR CH6. 3V	47U	1	
C3132		C. CAPACITOR CH 50V 1000P	1	C3512			C. CAPACITOR CH 25V	0. 10	1	
C3134		C. CAPACITOR CH 25V 0.1U		C3513			C. CAPACITOR CH 50V	18P	1	<del> </del>
C3135		C. CAPACITOR CH 50V 150P	1	C3514	_		C. CAPACITOR CH 50V	15P	1	
							C. CAPACITOR CH 25V	0. 10	<del>                                     </del>	
C3136		C. CAPACITOR CH 50V 47P	1						+	
		C. CAPACITOR CH 50V 100P	2	03520			E. CAPACITOR CH6. 3V	470		
		C. CAPACITOR CH 25V 0.1U	2				C. CAPACITOR CH 25V	0.10	2	
C3141		C. CAPACITOR CH 50V 100P	1				C. CAPACITOR CH 50V	1000P	3	
C3142		C, CAPACITOR CH 50V 0.01U	1	C3601			C. CAPACITOR CH 25V	0.10	1	
C3145		E. CAPACITOR CH 16V 47U	1	C3602			C. CAPACITOR CH 50V	0. 010	1	
		C. CAPACITOR CH 25V 0.1U	2	C3605			C. CAPACITOR CH 25V	0. 10	+	
C3148		E. CAPACITOR CH 16V 47U	-				C. CAPACITOR CH 25V	0. 10	2	
C3149	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	C3703	-		E. CAPACITOR CH 16V	100	1	
C3150	ECEV1EN3R3Q	E. CAPACITOR CH 25V 3.3U	1	C3704.	05	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 1U	2	:
C3151	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	C3706		ECEV1 CV1 00Q	E. CAPACITOR CH 16V	1.00	1	
C3152	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	C3707,	08	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 1U	2	
C3153-62	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	10	C3709		ECEV1CV100Q	E. CAPACITOR CH 16V	1 OU	1	
C3171-84	ECUM1E104ZFN	C. CAPACITOR CH 25V 0. 1U	14	C3710.	11	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 1U	2	:
C3185	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	C3712		ECEVOJV330Q	E. CAPACITOR CH6. 3V	33U	1	
		C. CAPACITOR CH 25V 0.1U	25				C. CAPACITOR CH 25V	0. 1U	2	
C3216		C. CAPACITOR CH 50V 1000P	1	C3715			E. CAPACITOR CH6. 3V	33U	1	
		C. CAPACITOR CH 25V 0. 1U	8				C. CAPACITOR CH 25V	0. 1U	2	,
		C. CAPACITOR CH 50V 1000P	1	C3718			E. CAPACITOR CH6. 3V	33U	1	1
		C. CAPACITOR CH 50V 0. 01U	1				C. CAPACITOR CH 25V	0. 10	2	
		C. CAPACITOR CH 25V 0.1U	8	C3721			E. CAPACITOR CH6. 3V	330	1	
			-		-		C. CAPACITOR CH 25V	0. 1U	۱-	
					-				1	-
		C. CAPACITOR CH 50V 0.01U		C3724	$\overline{}$		E. CAPACITOR CH6. 3V	33U	<u> </u>	
		C. CAPACITOR CH 50V 10P	1		-		C. CAPACITOR CH 25V	0.10	2	
		C. CAPACITOR CH 50V 1000P	_1	C3727			E. CAPACITOR CH6. 3V	33U	<u> </u>	
C3264		C. CAPACITOR CH 50V 18P	_1				C. CAPACITOR CH 50V	330P	3	
		C. CAPACITOR CH 25V 0.1U	4		-		C. CAPACITOR CH 25V	0. 10	2	
C3269		C. CAPACITOR CH 50V 1000P	_1	C3743			E. CAPACITOR CH6. 3V	33U	<u> </u>	
		C. CAPACITOR CH 25V 0.1U	9		-		C. CAPACITOR CH 25V	0. 1U	2	
		C. CAPACITOR CH 50V 1000P	2	C3746	$\dashv$	ECEVOJV3300	E. CAPACITOR CH6. 3V	330	1	
C3301-18	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	18						L	
C3319	VCK0151	C. CAPACITOR	1	D3101		MA715	DIODE		1	
C3320	ECUX1H180JCN	C. CAPACITOR CH 50V 18P	1	D3102	I	MA335-R	DIODE		1	
C3321	ECUM1H682KBN	C. CAPACITOR CH 50V 6800P	1	D3103,	04	MA152K	DIODE		2	
C3322	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	D3111,	12	MA701A	DIODE		2	
C3323	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	D3501-	03	MA715	DIODE		3	
		C. CAPACITOR CH 50V 18P	1	D3507,	08	MA152K	DIODE		2	
		C. CAPACITOR CH 50V 6800P	1		$\dashv$					
		E. CAPACITOR CH6. 3V 33U	1	FL3101	_	VLF1116	FILTER		1	
		C. CAPACITOR CH 25V 0.1U	2	FL3102	-		FILTER		1	
		E. CAPACITOR CH 16V 10U		FL3103			FILTER		1	
		E. CAPACITOR CH 50V 2. 2U	-		-		FILTER		3	
		E. CAPACITOR CH 16V 10U	1	12310	-~	, 510AZZ			げ	
			1	103001	$\dashv$	UPD65841G025	10		1	<b> </b>
					-		IC		1	
		C. CAPACITOR CH 25V 0.1U	1	103003	-	MN67372A2			<u> </u>	
		E. CAPACITOR CH6. 3V 33U	1	103004	-	MN4707F	10		1	
		C. CAPACITOR CH 50V 18P	1	103005		MN673711	10		1	
		C. CAPACITOR CH 50V 6800P	_1	103006	_	M65401FP	10		1	
		C. CAPACITOR CH 50V 1000P	1	103007	_	L7A1433	10		1	
		C. CAPACITOR CH 25V 0.1U	_	103008			IC		1	· · · · · · · · · · · · · · · · · · ·
		C. CAPACITOR CH 50V 1000P	_1			L7A1434	IC		2	
C3361-71	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	11	IC3011		L7A1433	10		1	
C3381-92	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	12	103012	$\Box$	MB81V4260S7	10		1	
C3401	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	. 103013		MN673711	IC		1	
C3402	ECUX1H150JCN	C. CAPACITOR CH 50V 15P	1	103014		M65401FP	IC		1	
		C. CAPACITOR CH 25V 0.1U	10	103015		M52660FP	IC		1	
		C. CAPACITOR CH 25V 0.1U	12	103016		MN67372A2	IC .		1	
					$\neg$				Т	

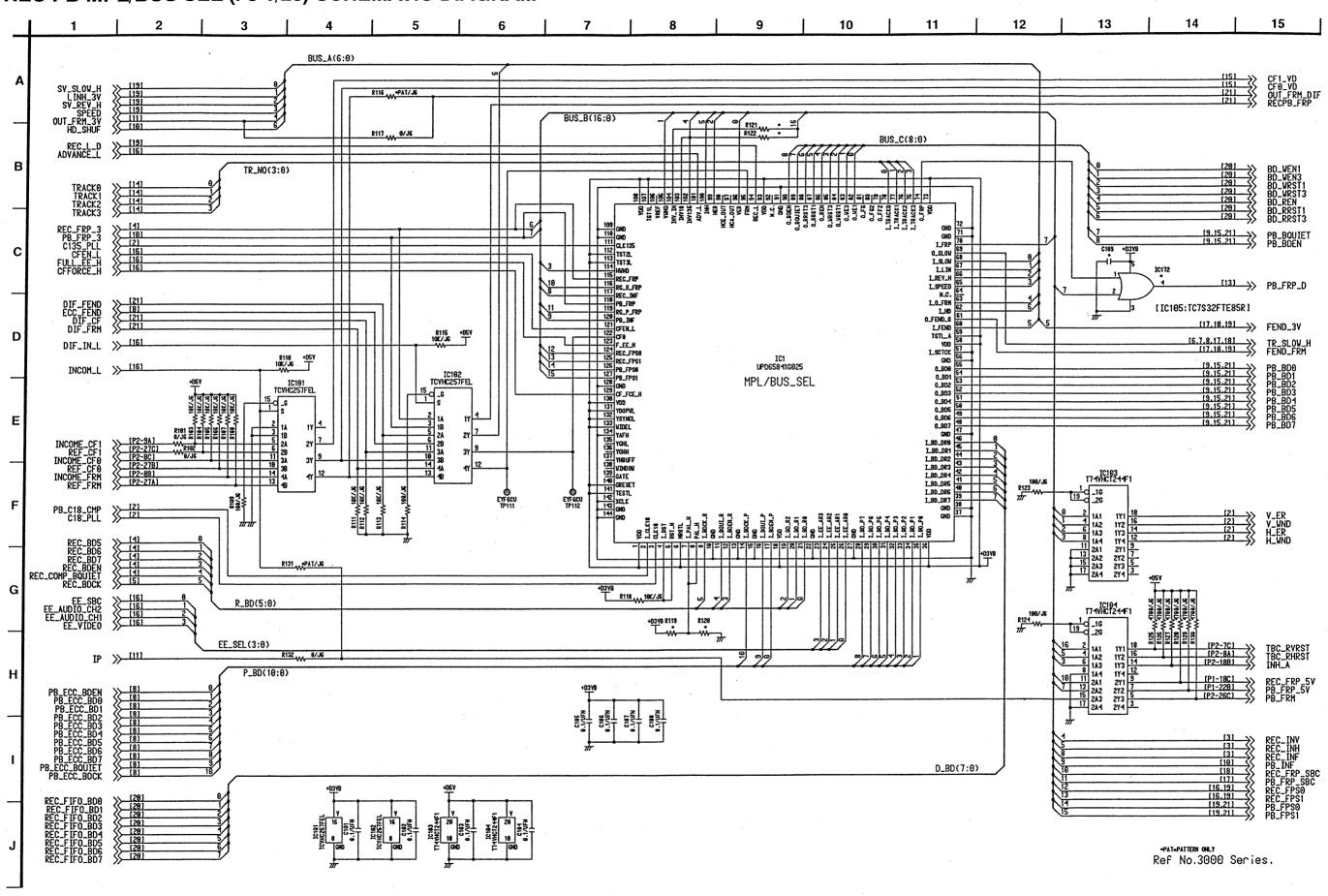
Ref. Fig.   Part No.		·		_					_	
CADING   PROCESSION   C									PCS	Remarks
CICATION   PROPERTIONS   CO.									-	
GEORGIA   PRESENCE   C				_					+	
COMPAND   PROPERTION   C									2	
CAMPAIN   CAMP				-					3	
Company   Comp										
				_		301	VLQ0318K470	GOIL 47011	H-	
Tracear-1-427   0						001 00	V ID2454D000	CONNECTOR (MALE)	-	
CORREST   CORPORATION   Commonwealth   Commonweal				_					_	
CICRION D. STOPPOSE PROMETERS   1						1003	VJP3418B000	CONNECTOR (MALE)	H-	
COSTON CONTROLOGY   CO						2001	000000E-P	TOANGLETOD	-	
100100   1000000   1000000   1000000   1000000   1000000   10000000   10000000   10000000   100000000									H	
CICCITO   CORPORATE   CO						1301	23B / UBA-R	TRANSTSTOR	i -	
CICHIO   COMPANDED   C				_		0501	UNIOG1 A	TDANCISTOR_DESISTOR	۰,	
					QR3	3501	UN2214	TRANSISTUR-RESISTOR	-	
CONTINE   CONT				_			== 10051/0000	W DECLOTOR OIL 4 (40W A	-	
PRINCE   P				-					-	ļ
COLD   TAMES	103110	TC7S04F							6	
CONTROL   MANAGEMENT   CONTROL   C	103111, 12	74F244SJ	10						<u> </u>	
Control   Cont	103113	T74LCX244F	IC						4	
	103114	MC10H124M	IC						1	<u> </u>
									1	
CRISTON   TRANSCRIPT   CRIST	103118-20	T74VHC244F		_					<u> </u>	
R8123.2   TANICLASE    0	103121	MC10H125M	IC	-					2	<u> </u>
C03127   TOTSBEEF   C0	103122	T74LCX244F		_					1	
COLUMN   C	IC3123-26	T74VHC245F	IC .							
103139   1010H124H   10	103127	TC7S66F	IC	_					-	
COST-130   TOTS-REF   CO	103128	T74VHCT244F	IC	1	R31	132			<u> </u>	
COST33	IC3129	MC10H124M	10	1	R31	141, 42			2	
C03132   TOWIC257F   0	103130	TC7S66F	IC	1					1	
C03138   T74NC07244F   10   3   87.146   87.1466   87.	103131	T74VHC08F	10	1	R31	145			1	
C3194-96   TAVICQ44F   10	103132	TCVHC257F	IC	1	R31	146, 47	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
TOMHOT   Formation   TOMHOT   Formation   TOMHOT   Formation   TOMHOT   Formation   Form	103133	T74VHCT244F	I-C	- 1	R31	148	ERJ6GEYG273	M. RESISTOR CH 1/10W 27K	1	
Incompany   Inco	103134-36	T74VHC244F	10	3	R31	149	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M	1	
TOHNOOF   10	103137	TCVHC164F	IC	1	R31	150	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
Color   Colo	103138	T74VHC74F	IC	1	R31	152, 53	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
CG3140   TOTSOOF   C		TCVHC02F	10	1	R31	154	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
C3145   MC10H125M   C		TC7S00F	IC	1	R31	155	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7K	1	
IG3148	103141-44	74ALS541SJ	10	4	R31	1156	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1	
103146, A] 774L0X24F			10	1	R31	157	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
103149, 50 SN74S105INS   10   2   R3161   ERJ06EY0R00   R. RESISTOR CH 1/10W   47K   1   1   1   1   1   1   1   1   1		T74LCX244F	10	2	R31	158	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M	1	
103151, 32   74ALS245SJ   10   2	103148	T74VHC74F	10	1	R31	159	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	1	
103153   74ALS24958   10	103149, 50	SN74S1051NS	IC	2	R31	160	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
103154   T74V1C244F   1C	103151, 52	74ALS541SJ	IC	2	R31	161	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	. 1	
103158   T74VHC244F   IC	IC3153	74ALS245ASJ	IC	1	R31	162, 63	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R3168   ERJ66EYG10   M. RESISTOR CH 1/10W   1K   1   1   1   1   1   1   1   1	103154	74AC139SJ	10	1	R31	164	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
103163   T74VHC244F   C	103156	T74VHC244F	10	1	R31	3165	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M	1	
R3186   FINDREST   C   S   R3188   B   R368EYG470   M. RESISTOR CH 1/10W   47   2   1   1   1   1   1   1   1   1   1	IC3157	TC7SO4F	10	1	R31	3166	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
103162   T74VHC74F   10	IC3158	T74VHC244F	IC	1	R31	3167	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
13181   1318	IC3159-61	TCVHC257F	IC	3	R31	168, 69	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
13161, 64   T74VHC245F   10   2   R3177-79   ERJ66EYG470   M. RESISTOR CH 1/10W   47   3   1   1   1   1   1   1   1   1   1	IC3162	T74VHC74F	IC	1	R31	3171-75	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	5	
IC3185.66   T74VHC245F   IC	103163, 64	T74VHCT244F	IC	2	R31	176	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
C3169   T07504F   C			IC	2	R31	177-79	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	3	
IC3169   TC7S04F   IC			10	2	R31	3181, 82	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
R3189-82   ERJ6GEY9171   M. RESISTOR CH 1/10W 470   4   103172   T07832F   10   1   1   R3193   ERJ6GEY6170   M. RESISTOR CH 1/10W 100   1   1   1   1   1   1   1   1   1			10	1	R31	185-88	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	4	
R3192   R3193   R3195   R319			IC	1	R31	189-92	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	4	
C3201 NJM78L09UA   C		TC7S32F	10	1	R31	193	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	ı.	
IC3202   NJM79L09UA   IC		NJM78L09UA	10	1	R31	195-01	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	7	
R3203   NJM78L05UA   IC				1	R32	202	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R3214   R3264   R3215   R3216   R321			IC	1	R32	203-06	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	4	
C3205   XC82AP3202P   IC				1	R32	3211	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R3200   R3264P3302P   C					R32				8	
R3207.08 X082AP3202P   IC   2   R321-28   RJ08EY96470   M. RESISTOR CH 1/10W   47   8   R3210.11 X082AP3202P   IC   1   R3241-48   RJ06EY96103   M. RESISTOR CH 1/10W   10K   8   R3241-48   RJ06EY96103   M. RESISTOR CH 1/10W   10K   8   R3249   RJ06EY96101   M. RESISTOR CH 1/10W   10K   8   R3250.11 X082AP3202P   IC   1   R3250-57   RJ06EY96103   M. RESISTOR CH 1/10W   10K   8   R3250   RJ06EY96103   M. RESISTOR CH 1/10W   10K   8   R3250   RJ06EY96103   M. RESISTOR CH 1/10W   10K   8   R3250   RJ06EY96103   M. RESISTOR CH 1/10W   10K   8   R3250   RJ06EY96103   M. RESISTOR CH 1/10W   10K   8   R3250   RJ06EY96103   M. RESISTOR CH 1/10W   10K   8   R3250   RJ06EY96103   M. RESISTOR CH 1/10W   10K   8   R3250   RJ06EY96103   RJ06EY96103   M. RESISTOR CH 1/10W   10K   8   R3250   RJ06EY96103   RJ06EY9610									1	
R3241-48   RJ6GEYG103   M. RESISTOR CH 1/10W 10K   8				-				M. RESISTOR CH 1/10W 47	8	·
R3249   RJJ6gFYG101   M. RESISTOR CH 1/10W 100 1									8	
C3501   M37709M4L165   C				2					1	
1   1   1   1   1   1   1   1   1   1					R32	3250-57	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	8	
C3503   T74VHC08F   C				-	R32	3258	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R3271   RJ86FYG101   M. RESISTOR CH 1/10W   100   1									2	
1   1   1   1   1   1   1   1   1   1									1	
1   1   1   1   1   1   1   1   1   1				1					4	
IC3601   M37709M4L165   IC									6	
1   R3284   ERJ6GEYG101   M. RESISTOR CH 1/10W   100   .1   R3285-87   ERJ6GEYG470   M. RESISTOR CH 1/10W   47   3			·						2	
R3285-87 ERJ6GEYG470 M. RESISTOR CH 1/10W 47 3				_					. 1	
				Ė					3	
	L3101-06	VLQ0319K470	COIL 47UH	6	R32	289-91	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	3	

No.   No.   Part No.			<del></del>					Γ	L	T
STATEMENT   CALLESTIC OF 1/100   100   1   1   1   1   1   1   1	Ref. No.				Remarks				_	
BARRETON   RESISTE ON LIVE   10   1   1   1   1   1   1   1   1	R3292	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K 1					-	
Septiment   Septiment   Color   Colo	R3294-02	ERJ6GEYF472	M. RESISTOR CH 1/10W 4	. 7K 9		R3544			-	
Section   Continue	R3303-06	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K 4		R3545	ERJ6GEY0R00			
BASSING   BASSING   BASSING OF 1709   100   1	R3311	ERJ6GEYG223	M. RESISTOR CH 1/10W	22K 1		R3546	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
MARKETONIA   MAR	R3312-22	ERJ6GEY0R00	M. RESISTOR CH 1/10W	0 11		R3547	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
MARCH   MARC	R3331	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K 1		R3548	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
20033-0-10				330 1		R3549	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
STATE   Company   Compan						R3551	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
23331   C. A. C. C. C. C. C. C. C. C. C. C. C. C. C.									1	1.
MAJESTED   MAJESTED ON 1/100   1   1   1   1   1   1   1   1   1										
Section   Sect									-	
Manufaction   Manufaction		<del></del>								
Page   Page									-	
SCHOOL   Company   Compa									-	
SCHAMP   SAMPLE   S										
READERFYCHE   RESISTED ON 17/08   0   5							<del> </del>		-	
March   Busser   March   Mar			M. RESISTOR CH 1/10W						-	
RESIDENCE   REMOVED TO   RESISTOR ON 1/100   10   1   1   1   1   1   1   1   1	R3365-69	ERJ6GEYOROO	M. RESISTOR CH 1/10W			R3612, 13	<del> </del>			·
BANGETYNION   BANGETYNION   CH. 1/100	R3370, 71	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K 2		R3614	ERJ6GEYG102		-	
SASSING   SAMEWORD   MESISTOR ON I 1/100   10   10   10   10   10   10   1	R3372-74	ERJ6GEYG273	M. RESISTOR CH 1/10W	27K 3		R3615	ERJ6GEY0R00			
RESISTED   REMONETY AT   RESISTED ON I / 100   0   1   RESISTED ON I / 100   0   1   RESISTED ON I / 100   0   1   RESISTED ON I / 100   2   RESISTED ON I / 100   2   RESIS	R3382	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K 1		R3616, 17	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	2	
READER   READER   RESISTOR ON I / 100   0   1   READER   RESISTOR ON I / 100   1   READER   RESISTOR ON I / 100   1   READER   RESISTOR ON I / 100   1   READER   RESISTOR ON I / 100   1   READER   RESISTOR ON I / 100   1   READER   RESISTOR ON I / 100   1   READER   RESISTOR ON I / 100   0   2   RESISTOR ON I / 100   0   1   READER   RESISTOR ON I / 100   0   1   READER   RESISTOR ON I / 100   0   2   RESISTOR ON I / 100   0   2   RESISTOR ON I / 100   0   2   RESISTOR ON I / 100   0   2   RESISTOR ON I / 100   0   2   RESISTOR ON I / 100   0   1   RESISTOR ON I / 100   0   2   R	R3383	ERJ6GEYG101	M. RESISTOR CH 1/10W	100 1		R3618	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	-	
BASSED   B	R3384-89			. 7K   6		R3621, 22	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2	
SAME   SAME						R3623, 24	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	2	
SASSING   SANGEYTON   MESISTRY ON 1/100   30   1							<del></del>		1	
RANGE   RANGE   RESISTOR CH 1/10W   500   1									1	I
PROPRIES   SPANSEYTRON   M. MESTSTOR OH 1/10 M 20 M 1									ī	
BRANCH   SANCE   SANCEY   SA									H	
REGISTRA   REGISTRO CH   1/08   2.96   1									<u> </u>	
ROBINITION   RECONTROL   M. MESISTOR ON 17 (10)   Sept   1   ROBINITION   REPORT   M. MESISTOR ON 17 (10)   Sept   1   ROBINITION   R									-	
Residence   Resi									-	
RADIAL   RESISTOR ON 1/10W 100   1									-	
ROBERTO   N. MESISTOR ON 1/10 W   10										<del></del>
R0422   ELUGETONOO   RESISTOR ON 1/10#   0   1   R0472-75   ERUGETONOO   M. RESISTOR ON 1/10#   0   3   R0424-22   ERUGETONOO   M. RESISTOR ON 1/10#   0   1   R0472-75   R040ETONOO   M. RESISTOR ON 1/10#   0   1   R0472-75   R040	R3405	ERJ6GEYG391							-	
RAS44-27   SPURGEYSTON	R3411	ERJ6GEYG101	M. RESISTOR CH 1/10W	100 1		R3656, 57	ERJ6GEYG103		-	
R3229   TOURS   TOUR	R3422	ERJ6GEY0R00	M. RESISTOR CH 1/10W	0 1		R3673-75	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	3	
R3293-8 ERJ06EY0107 M. RESISTOR CH 1/10M TK S  R3493-8 ERJ06EY0107 M. RESISTOR CH 1/10M TK S  R3709 ERJ06EY0107	R3424-27	ERJ6GEYG102	M. RESISTOR CH 1/10W	1K 4		R3701	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R3494-98   ER-R06EY0103   M. RESISTOR CH 1/10W   10K   1	R3428	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K 1		R3703	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
RR349-36   ER.486EY1010   M. RESISTOR CH 1/10W   100   1   RR310   RR390   ER.486EY1010   M. RESISTOR CH 1/10W   101   1   RR310   ER.486EY1010   M. RESISTOR CH 1/10W   101   1   RR310   ER.486EY1010   M. RESISTOR CH 1/10W   101   1   RR310   ER.486EY1010   M. RESISTOR CH 1/10W   101   1   RR310   ER.486EY1010   M. RESISTOR CH 1/10W   101   1   RR310   ER.486EY1010   M. RESISTOR CH 1/10W   101   1   RR310   ER.486EY1010   M. RESISTOR CH 1/10W   101   1   RR310   ER.486EY1010   M. RESISTOR CH 1/10W   100   2   RR310   ER.486EY1010   M. RESISTOR CH 1/10W   100   2   RR310   ER.486EY1010   M. RESISTOR CH 1/10W   100   2   RR310   ER.486EY1010   M. RESISTOR CH 1/10W   100   2   RR310   ER.486EY1010   M. RESISTOR CH 1/10W   100   1   RR310   ER.486EY1	R3429-31	ERJ6GEYG102	M. RESISTOR CH 1/10W	1K 3		R3708	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
RA3171   RA366Y1010   M. RESISTOR ON I/10W 100   1   R3710   ENJOYEV1010   M. RESISTOR ON I/10W 101   R3456   RA366  RA366Y102   M. RESISTOR ON I/10W 101   R3737-39   ENJOYEV1010   M. RESISTOR ON I/10W 101   R3737-39   ENJOYEV1010   M. RESISTOR ON I/10W 102   R3737-39   ENJOYEV1010   M. RESISTOR ON I/10W 102   R3737-39   ENJOYEV1010   M. RESISTOR ON I/10W 102   R3737-39   ENJOYEV1010   M. RESISTOR ON I/10W 103   R3737-39   ENJOYEV1010   M. RESISTOR ON I/10W 103   R3737-39   ENJOYEV1010   M. RESISTOR ON I/10W 100   R3737-39   ENJOYEV1010   M. RESISTOR ON I/10W 101   M. RASISTOR					R3709	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		
R4544   R456EY4103   R.RESISTOR OH I/10W 10K 1   R37225   R456EY4070   RESISTOR CH I/10W 17K 1   R3725-39   R456EY4070   RESISTOR CH I/10W 10K 1   R3735-39   R456EY4070   RESISTOR CH I/10W 10K 2   R3745-45   R456EY4070   RESISTOR CH I/10W 10K 2   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 4   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 4   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 4   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 4   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 4   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 4   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 4   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 4   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 4   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 4   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3745-45   R456EY4070   R45SISTOR CH I/10W 10K 1   R3756-45   R		<u> </u>				R3710	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	1.1
R3456   RJ46EYG102   RESISTOR CH 1/10W 100   1									1	
R3481   R348									8	
R3493	<del></del>								3	
R3471   R3472   R348EYORDO   M. RESISTOR CH   1/10W   0   1   R3732   R348EY0102   M. RESISTOR CH   1/10W   10   1   R3732   R348EY0102   M. RESISTOR CH   1/10W   10   1   R3733   R348EY0103   M. RESISTOR CH   1/10W   10   1   R3733   R348EY0103   M. RESISTOR CH   1/10W   10   1   R3431   R348EY0103   M. RESISTOR CH   1/10W   10   1   R3431   R348EY0103   M. RESISTOR CH   1/10W   10   1   R348EY0103   M. RESISTOR CH   1/10W   1   M. R838EY0103   M. RESISTOR CH   1/10W   1   M. R838EY0103									4	
R3752 ERJ86EY8102 M. RESISTOR CH 1/10W 270 1 1 R3752 ERJ86EY8102 M. RESISTOR CH 1/10W 100 1 R3753 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3753 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3754 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3754 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3754 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3754 ERJ86EY8101 M. RESISTOR CH 1/10W 100 0 1 R3761.82 ERJ86EY8101 M. RESISTOR CH 1/10W 100 0 2 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 0 2 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 0 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 0 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3763-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3764-86 ERJ86EY8101 M. RESISTOR CH 1/10W 100 1 R3854-86 ERJ86EY8101 M. RESISTOR CH 1/10W									-	
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R3465	R3483-88								-	
R3499	R3491, 92	ERJ8GEYOROO	M. RESISTOR CH 1/10W	0 2						
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R3501   R3502   R366EY0802   M. RESISTOR CH 1/10W 1K 1   R3776   R366EY0802   M. RESISTOR CH 1/10W 10   1   R3776   R37876   R37876   R37876   R37876   R37876   R37876   R37876   R37876   R37878   R378878    R388878   R3888878   R388878   R388878   R388878   R3888878   R388878   R3888878   R388878	R3499	ERJ6GEYG101	M. RESISTOR CH 1/10W	100 1		R3775	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R3502, 03   ERJ8GEYG222   M. RESISTOR CH 1/10W   2. 2K   2   R3504, 05   ERJ8GEYG101   M. RESISTOR CH 1/10W   100   2   R3781-88   ERJ8GEYG103   M. RESISTOR CH 1/10W   100   6   R3508-07   ERJ8GEYG104   M. RESISTOR CH 1/10W   4.7K   3   R3508-94   ERJ8GEYG105   M. RESISTOR CH 1/10W   4.7K   1   R3511-13   ERJ8GEYG102   M. RESISTOR CH 1/10W   4.7K   1   R3511-13   ERJ8GEYG102   M. RESISTOR CH 1/10W   4.7K   1   R3511-13   ERJ8GEYG102   M. RESISTOR CH 1/10W   4.7K   1   R3511-14   ERJ8GEYG102   M. RESISTOR CH 1/10W   4.7K   1   R3515-09   ERJ8GEYG102   M. RESISTOR CH 1/10W   4.7K   1   R3515-19   ERJ8GEYG102   M. RESISTOR CH 1/10W   4.7K   1   R3512-14   ERJ8GEYG102   M. RESISTOR CH 1/10W   4.7K   1   R3512-14   ERJ8GEYG103   M. RESISTOR CH 1/10W   4.7K   1   R3512-19   ERJ8GEYG103   M. RESISTOR CH 1/10W   4.7K   1   R3512-19   ERJ8GEYG103   M. RESISTOR CH 1/10W   10K   1   R3520   ERJ8GEYG103   M. RESISTOR CH 1/10W   10K   1   R3520   ERJ8GEYG103   M. RESISTOR CH 1/10W   0   2   R3521-22   ERJ8GEYG103   M. RESISTOR CH 1/10W   0   2   R3521-22   ERJ8GEYG103   M. RESISTOR CH 1/10W   0   2   R3522   ERJ8GEYG103   M. RESISTOR CH 1/10W   0   2   R3523   ERJ8GEYG103   M. RESISTOR CH 1/10W   10K   1   R3522   ERJ8GEYG103   M. RESISTOR CH 1/10W   10K   1   R3523   ERJ8GEYG105   M. RESISTOR CH 1/10W   10K   1   R3524   ERJ8GEYG105   M. RESISTOR CH 1/10W   10K   2   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W   10K   2   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W   10K   2   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W   10K   2   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W   10K   2   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W   10K   2   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W   10K   2   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W   10K   2   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W   10K   2   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W   10K   2   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W   10K   2   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W   4.7K   1   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W   4.7K   1   R352		ERJ6GEYG102	M. RESISTOR CH 1/10W	1K 1		R3776	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	_1	
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R3508.07   ERJ8GEYF472   M. RESISTOR CH 1/10W 4.7K   2   R3789-94   ERJ8GEYG101   M. RESISTOR CH 1/10W 4.7K   1   R3511   ERJ8GEYF472   M. RESISTOR CH 1/10W 4.7K   1   R3511   ERJ8GEYF473   M. RESISTOR CH 1/10W 4.7K   1   R3511-14   ERJ8GEYG102   M. RESISTOR CH 1/10W 4.7K   1   R3517-19   ERJ8GEYG102   M. RESISTOR CH 1/10W 1K   3   R3512.22   ERJ8GEYG102   M. RESISTOR CH 1/10W 1K   3   R3520   ERJ8GEYG103   M. RESISTOR CH 1/10W 1K   3   R3521.22   ERJ8GEYG103   M. RESISTOR CH 1/10W 1K   1   R3523.24   ERJ8GEYG103   M. RESISTOR CH 1/10W 1K   1   R3523   ERJ8GEYG103   M. RESISTOR CH 1/10W 1K   1   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   1   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   1   R3525   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   1   R3527   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   1   R3527   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   1   R3527   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   2   R3527   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   2   R3527   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   2   R3527   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   2   R3528   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   2   R3529   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   2   R3529   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   2   R3529   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   2   R3529   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   2   R3529   ERJ8GEYG105   M. RESISTOR CH 1/10W 1K   2   R3529   ERJ8GEYG105   M. RESISTOR CH 1/10W 10K   2   R3529   ERJ8GEYG105   M. RESISTOR CH 1/10W 10K   2   R3529   ERJ8GEYG103   M. RESISTOR CH 1/10W 10K   2   R3529   ERJ8GEYG103   M. RESISTOR CH 1/10W 10K   2   R3529   ERJ8GEYG103   M. RESISTOR CH 1/10W 10K   2   R3529   ERJ8GEYG103   M. RESISTOR CH 1/10W 10K   2   R3529   ERJ8GEYG103   M. RESISTOR CH 1/10W 10K   2   R3529   ERJ8GEYG103   M. RESISTOR CH 1/10W 10K   2   R3529   ERJ8GEYG103   M. RESISTOR CH 1/10W 10K   2   R3529   ERJ8GEYG103   M. RESISTOR CH 1/10W 10K   2   R3529   ERJ8GEYG103   M. RESISTOR CH 1/10W 10K   2   R3529   ERJ8GEYG103   M. RESISTOR CH 1/10W 10K   1   R3529   ERJ8GEYG103   M.						R3781-88	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	8	
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R3527, 28 ERJ6GEYG102 M. RESISTOR CH 1/10W 1 K 2 R3589 ERJ6GEYG102 M. RESISTOR CH 1/10W 0 1 1 R3869-84 ERJ6GEYG101 M. RESISTOR CH 1/10W 100 16 R3530 ERJ6GEYF472 M. RESISTOR CH 1/10W 4.7 K 1 R3581, 32 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 2 R3531 ERJ6GEYF470 M. RESISTOR CH 1/10W 4.7 K 1 R3887.88 ERJ6GEYG470 M. RESISTOR CH 1/10W 100 2 R3533 ERJ6GEYF470 M. RESISTOR CH 1/10W 4.7 K 1 R3887.88 ERJ6GEYG470 M. RESISTOR CH 1/10W 100 2 R3534 ERJ6GEYF470 M. RESISTOR CH 1/10W 10K 1 R3890.91 ERJ6GEYG470 M. RESISTOR CH 1/10W 47 1 1 R3534 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 1 R3890.91 ERJ6GEYG101 M. RESISTOR CH 1/10W 47 1 1 R3537 ERJ6GEYG105 M. RESISTOR CH 1/10W 10W 100 2 R3537 ERJ6GEYG105 M. RESISTOR CH 1/10W 10W 10 10 2 R3538 ERJ6GEYG271 M. RESISTOR CH 1/10W 10W 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R3524	ERJ6GEYF473	M. RESISTOR CH 1/10W						-	
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R3530 ERJ6GEYF472 M. RESISTOR CH 1/10W 4.7 K 1 R3531, 32 ERJ6GEYG103 M. RESISTOR CH 1/10W 10K 2 R3533 ERJ6GEYF472 M. RESISTOR CH 1/10W 4.7 K 1 R3534 ERJ6GEYF472 M. RESISTOR CH 1/10W 10K 1 R3535 ERJ6GEYF670 M. RESISTOR CH 1/10W 4.7 K 1 R3535 ERJ6GEYF670 M. RESISTOR CH 1/10W 10K 1 R3580, 38 ERJ6GEYG101 M. RESISTOR CH 1/10W 10 C 2 R3580, 38 ERJ6GEYG101 M. RESISTOR CH 1/10W 10 C 2 R3580 ERJ6GEYG101 M. RESISTOR CH 1/10W 4.7 K 1 R3590, 91 ERJ6GEYG101 M. RESISTOR CH 1/10W 4.7 K 1 R3590, 91 ERJ6GEYG101 M. RESISTOR CH 1/10W 4.7 K 1 R3590, 91 ERJ6GEYG101 M. RESISTOR CH 1/10W 4.7 K 1 R3590 ERJ	R3529	ERJ6GEY0R00	M. RESISTOR CH 1/10W	0 1		R3869-84	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	16	
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R3534 ERJ6GEYG103 M.RESISTOR CH 1/10W 10K 1  R3590.91 ERJ6GEYG101 M.RESISTOR CH 1/10W 10 2  R3595.36 ERJ6GEYG105 M.RESISTOR CH 1/10W 0 2  R3597 ERJ6GEYG105 M.RESISTOR CH 1/10W 1M 1  R3598 ERJ6GEYG105 M.RESISTOR CH 1/10W 1M 1  R3598 ERJ6GEYG101 M.RESISTOR CH 1/10W 10 1  R3908 ERJ6GEYG101 M.RESISTOR CH 1/10W 10 1  R3908 ERJ6GEYG101 M.RESISTOR CH 1/10W 10 1		<del></del>							<del> </del>	
R3535, 36 ERJ6GEY0R00 M. RESISTOR CH 1/10W 0 2 R3892-07 ERJ6GEYG105 M. RESISTOR CH 1/10W 47 16 R3537 ERJ6GEYG105 M. RESISTOR CH 1/10W 1M 1 R3908 ERJ6GEYG101 M. RESISTOR CH 1/10W 100 1 R3538 ERJ6GEYG271 M. RESISTOR CH 1/10W 270 1									+	
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R3539, 40   ERJ6GEYOROU   M. RESISTOR CH 1/10W U 2   SW3101   VSSU36/-U418   SW11CH   1						OWC101	V000007 0477	CWITCH	+	
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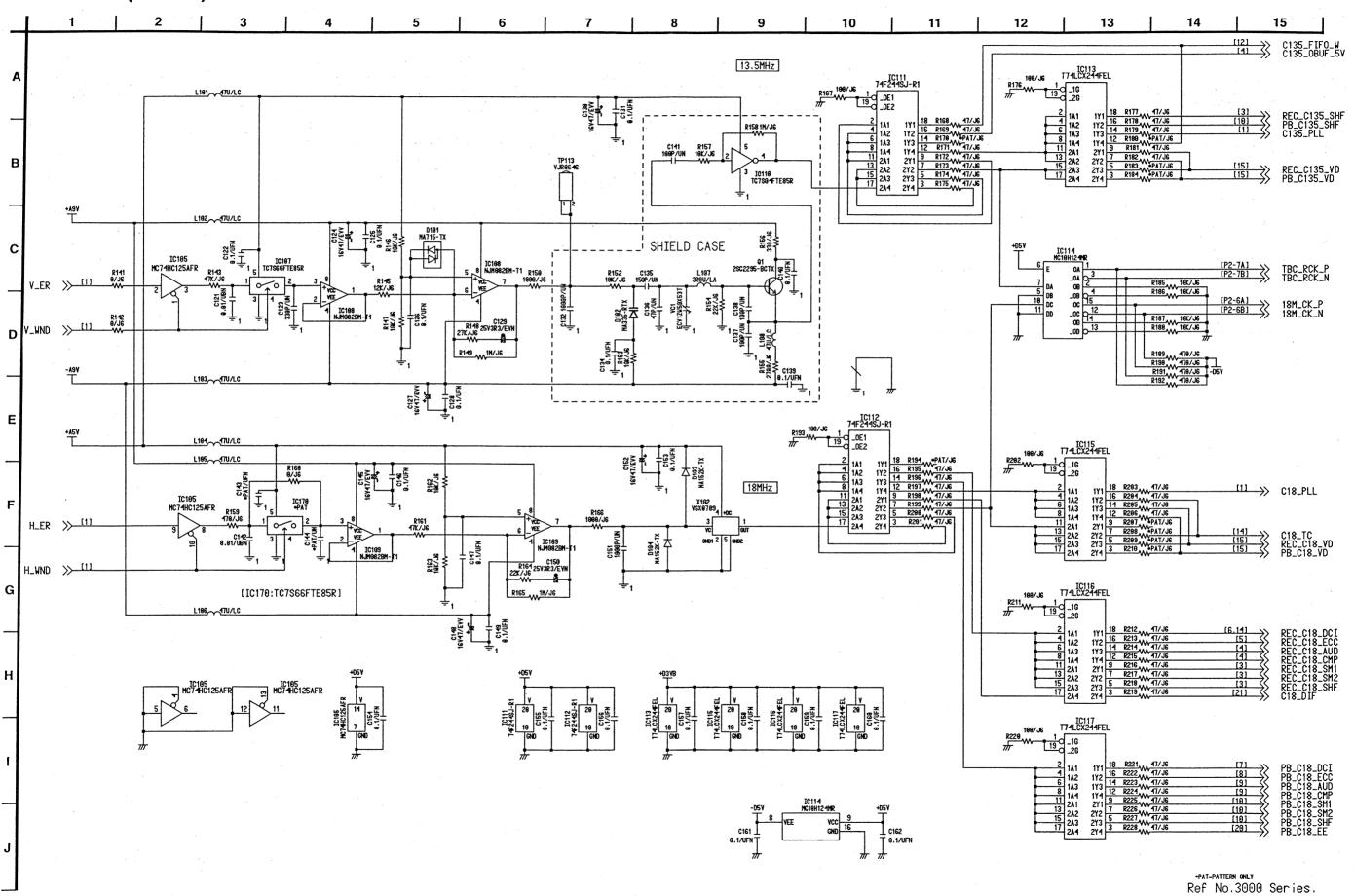
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
SW3102	VSS0367-08	SWITCH	1		ļ				
700101	V ID0040	TEST DOLLIT	1		ļ			-	
	VJR0646 EYF6CU	TEST POINT TEST POINT	1						
	EYF6CU	TEST POINT	1					-	
74000			Ė						
TP3101-06	EYF6CU	TEST POINT	6						
TP3108-12	EYF6CU	TEST POINT	5						
TP3113	VJR0646	TEST POINT	1						
TP3114	EYF6CU	TEST POINT	1		ļ				
TP3501, 02	EYF6CU	TEST POINT	2		ļ			-	
TP3601, 02	EYF6CU	TEST POINT	2					-	
VC3001	ECV1ZW50X53T	TDIMMED	1					_	
V03001	EUV 12#30X331	IKIMMEK	Ė						
VR3101-03	EVMEGSA00B24	V. RESISTOR 20K	3						
X3102	VSX0789	CRYSTAL OSCILLATOR	1						
X3103	VSX0645-B	CRYSTAL OSCILLATOR	1						
X3501	VSX0637-T	CRYSTAL OSCILLATOR	1						
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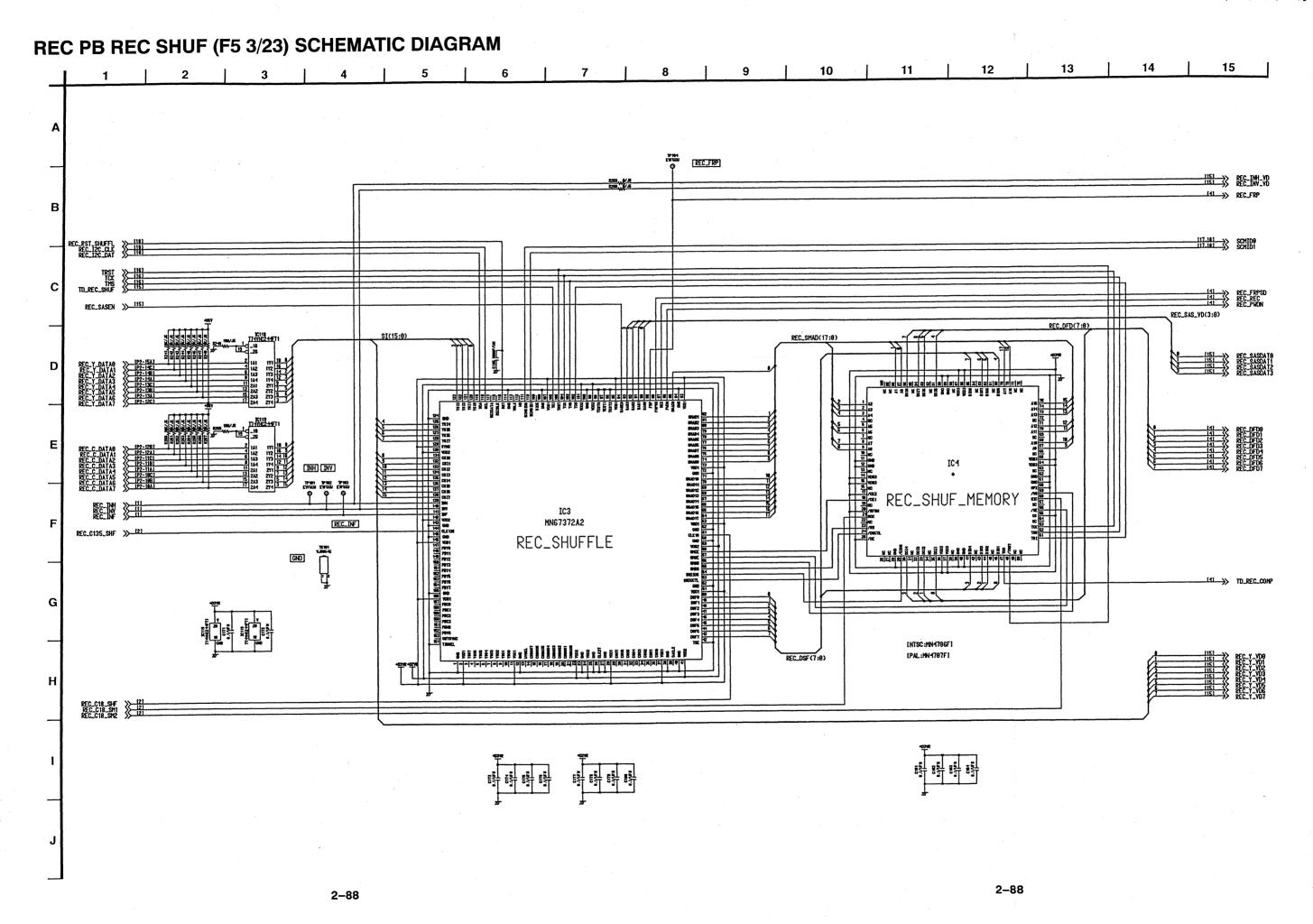
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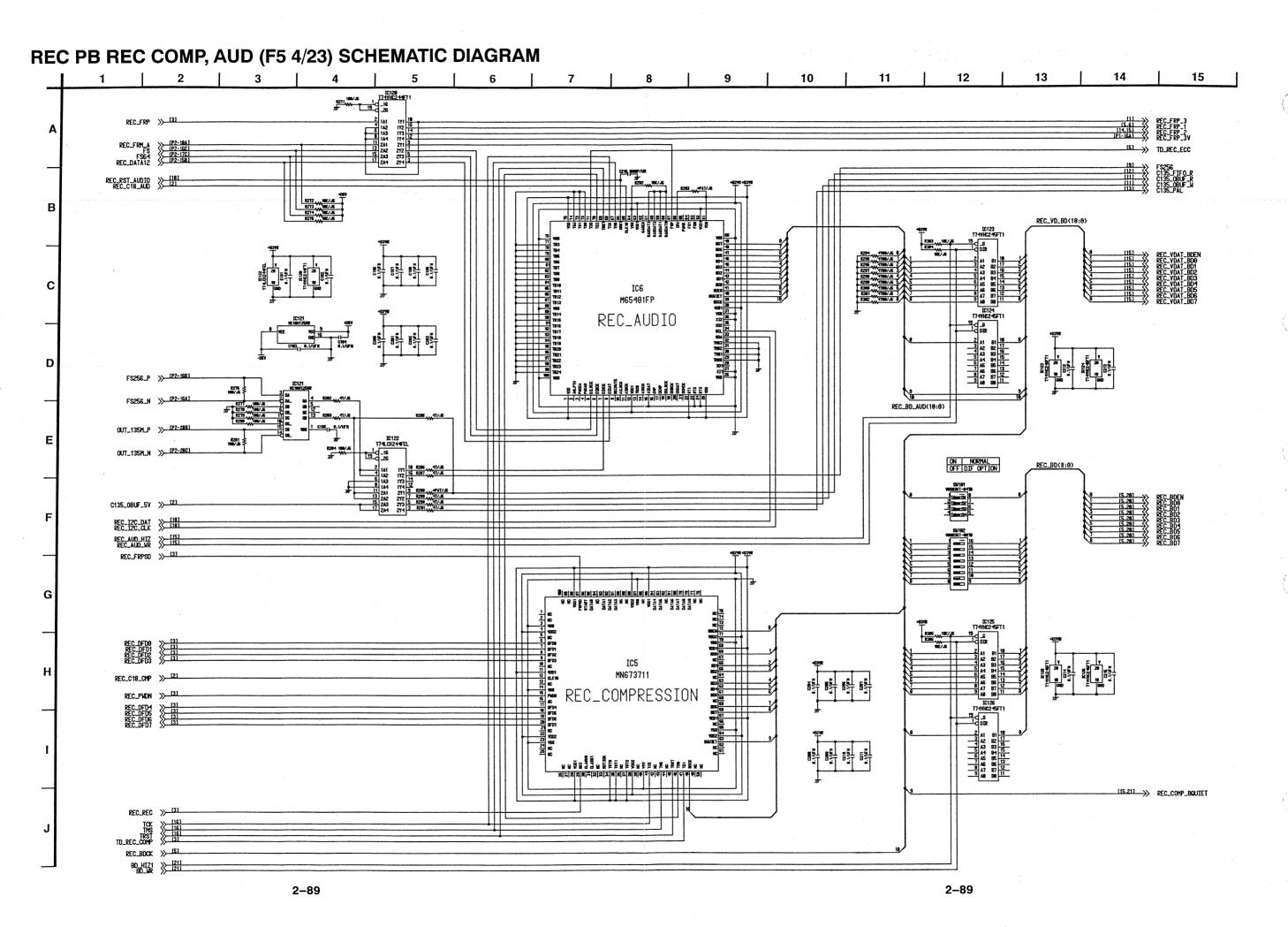
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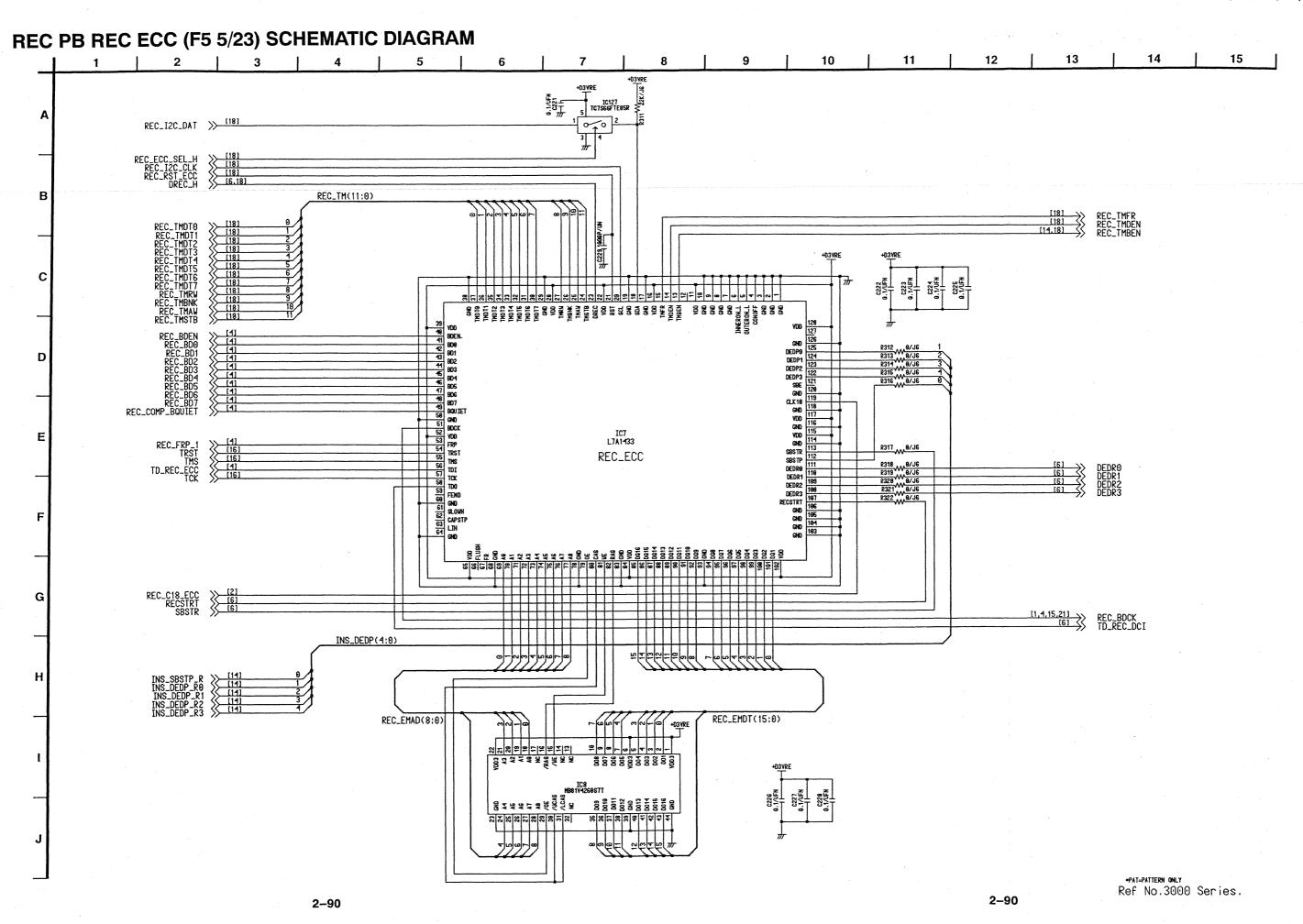


### REC PB PLL (F5 2/23) SCHEMATIC DIAGRAM

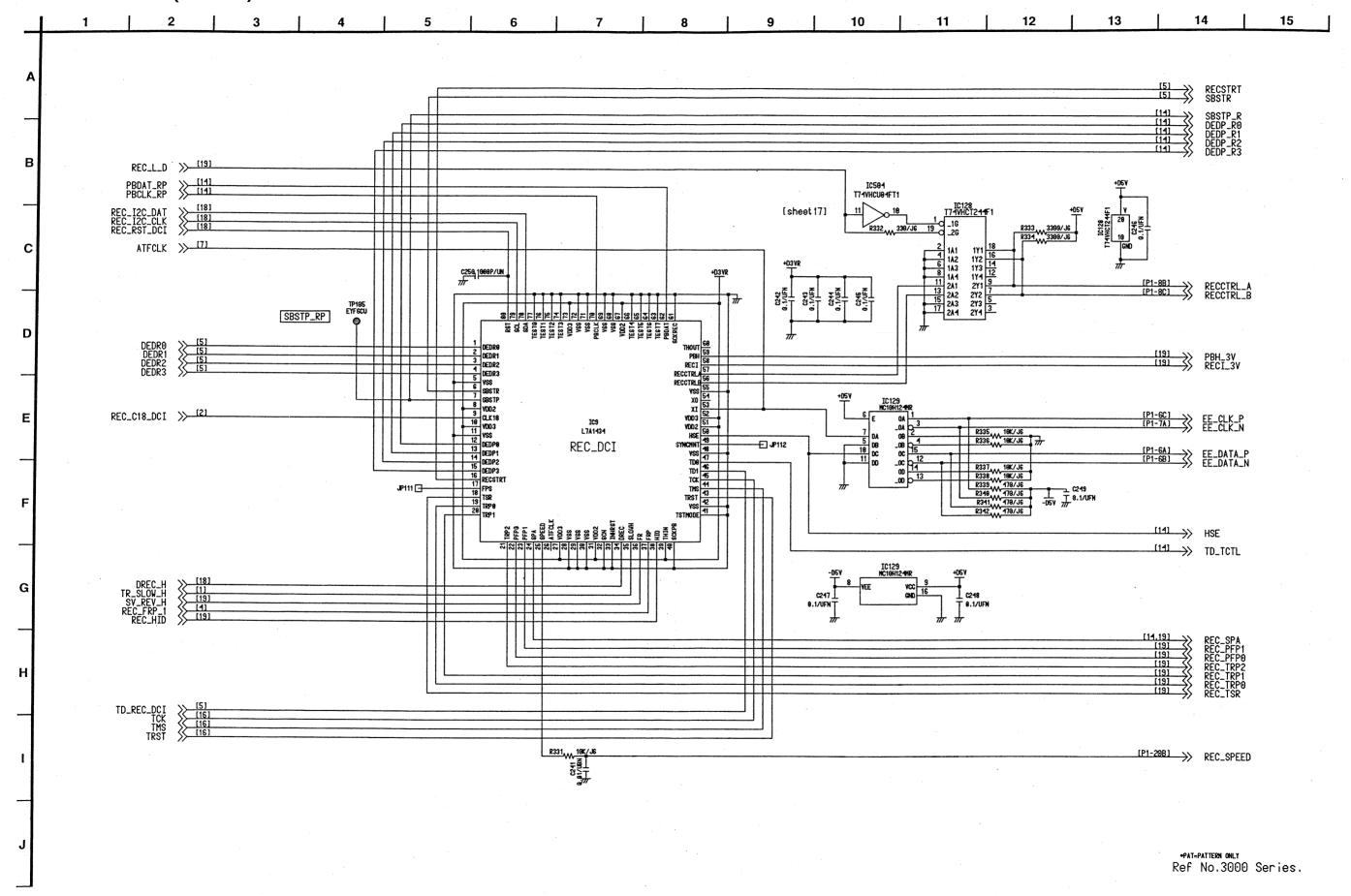




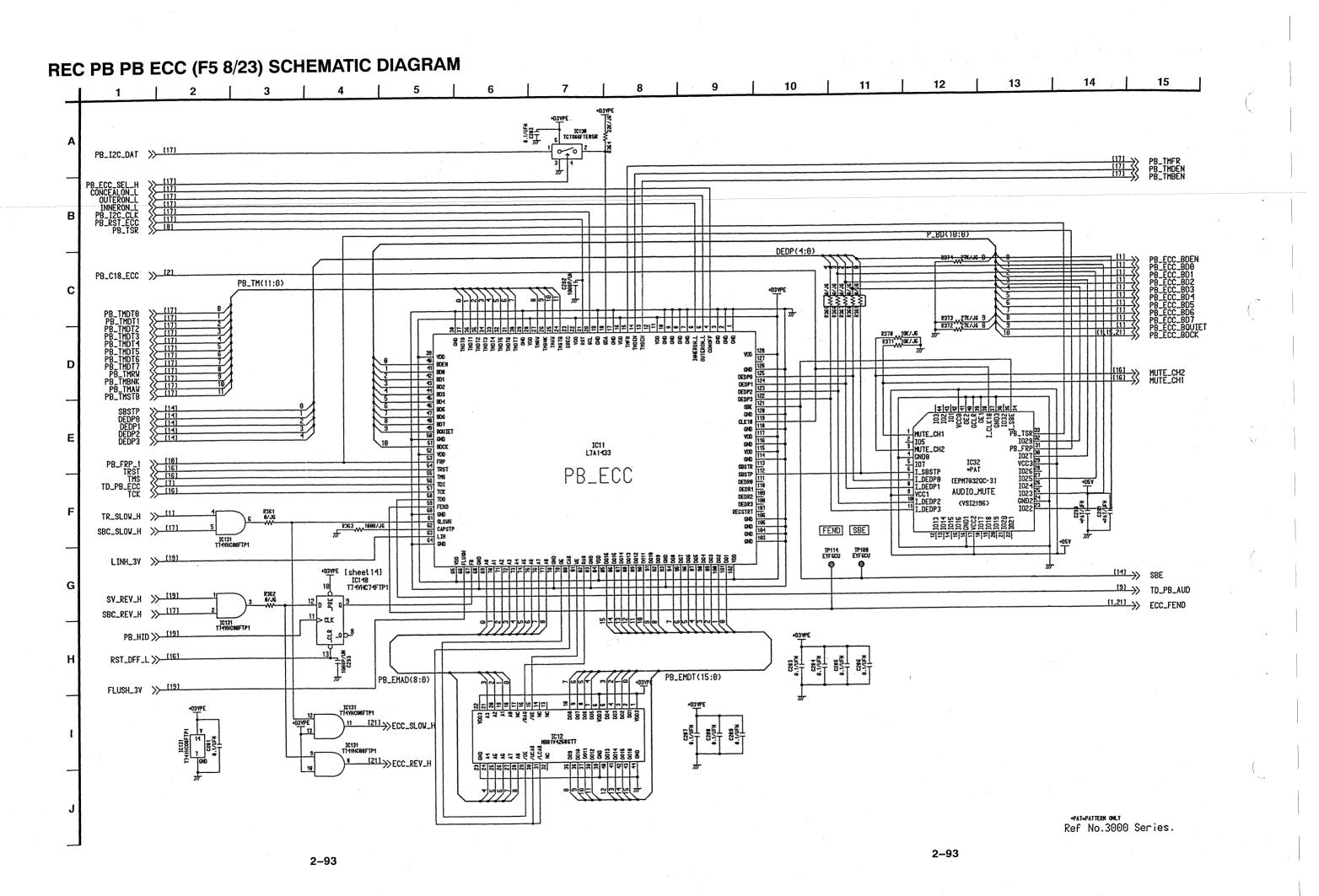


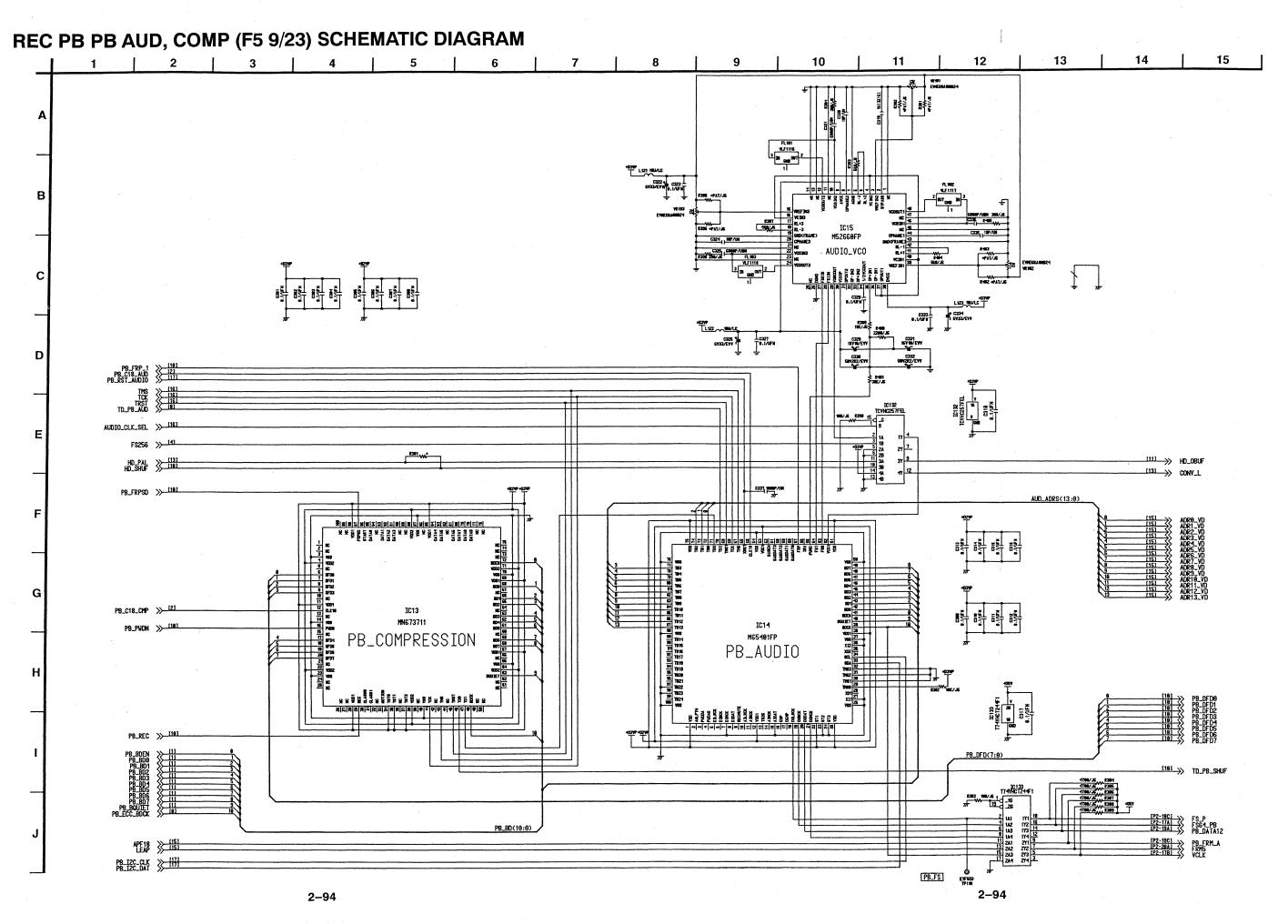


### REC PB REC DCI (F5 6/23) SCHEMATIC DIAGRAM

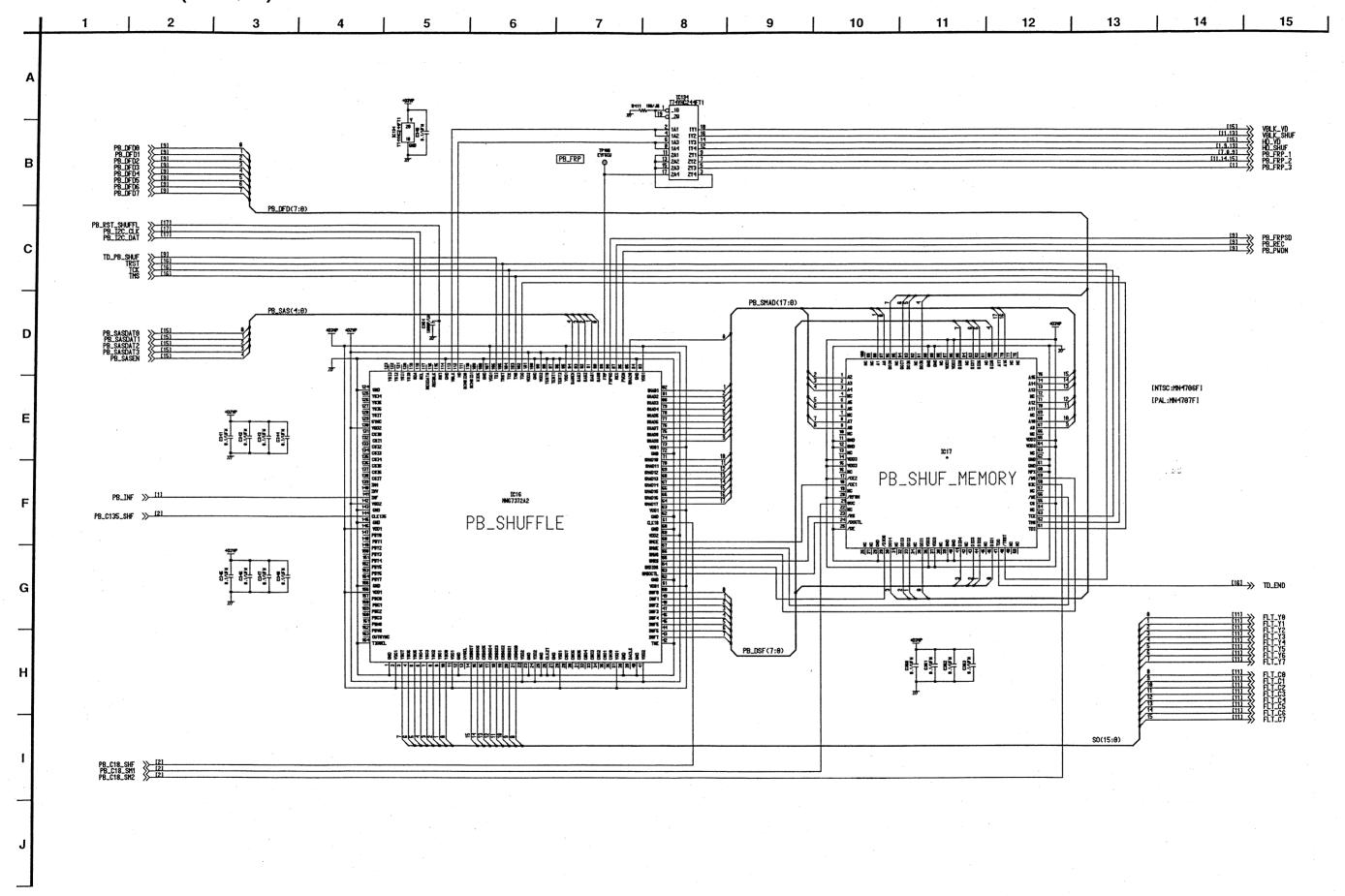


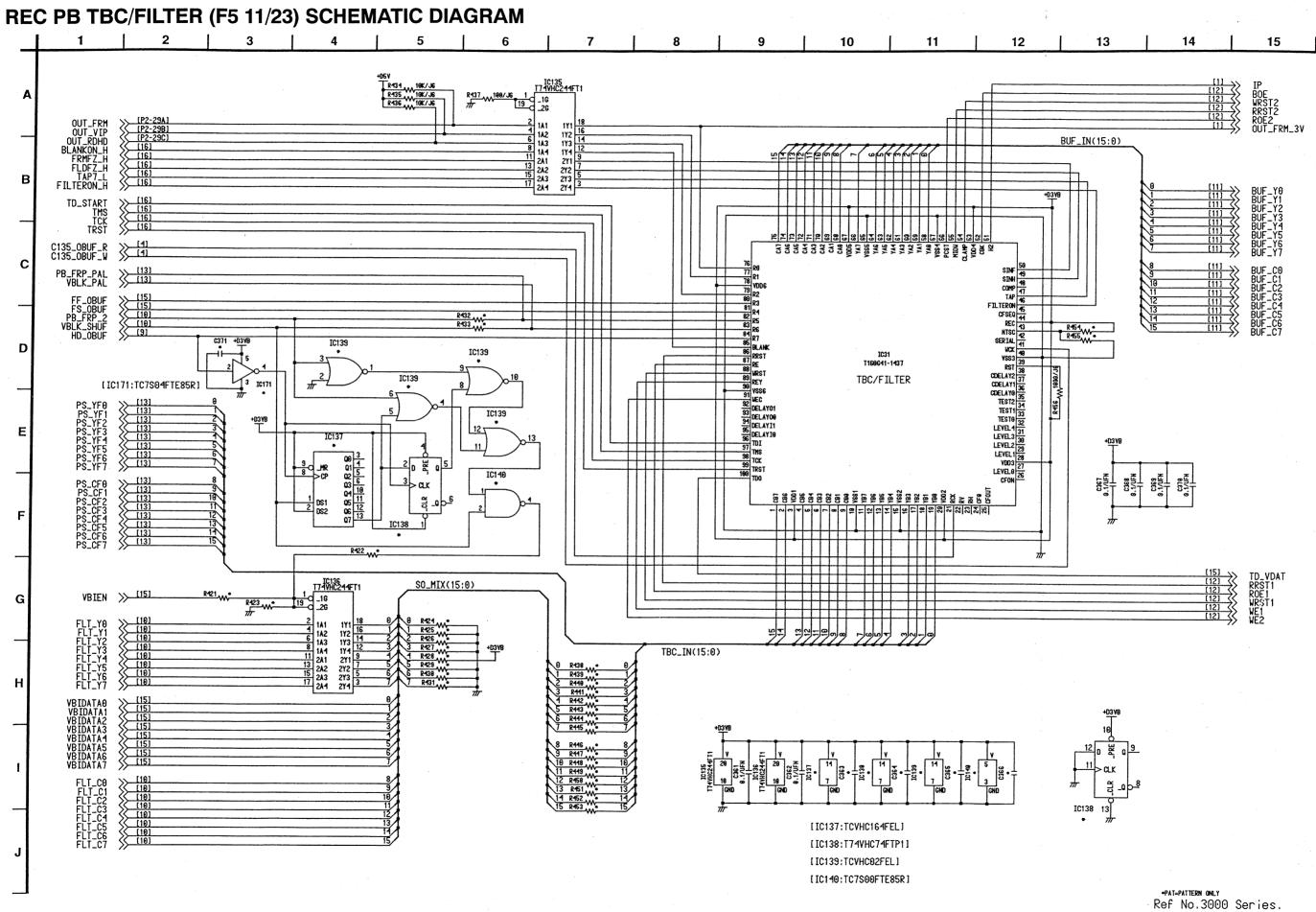
## REC PB PB DCI (F5 7/23) SCHEMATIC DIAGRAM 10 11 12 15 PBDAT\_PB \(\) [14] PBCLK\_PB \(\) [14] 80.7 139 80. TP196 EYF6CU SBSTP\_PB R352 477/JG CP2801 PB\_C18\_DCI >> [2] IC10 L7A1434 PB\_DCI GND 16.141 ATFCLK R351 18K/J6 (P1-20A) >>> PB\_SPEED \*PAT=PATTERN ONLY Ref No.3000 Series.





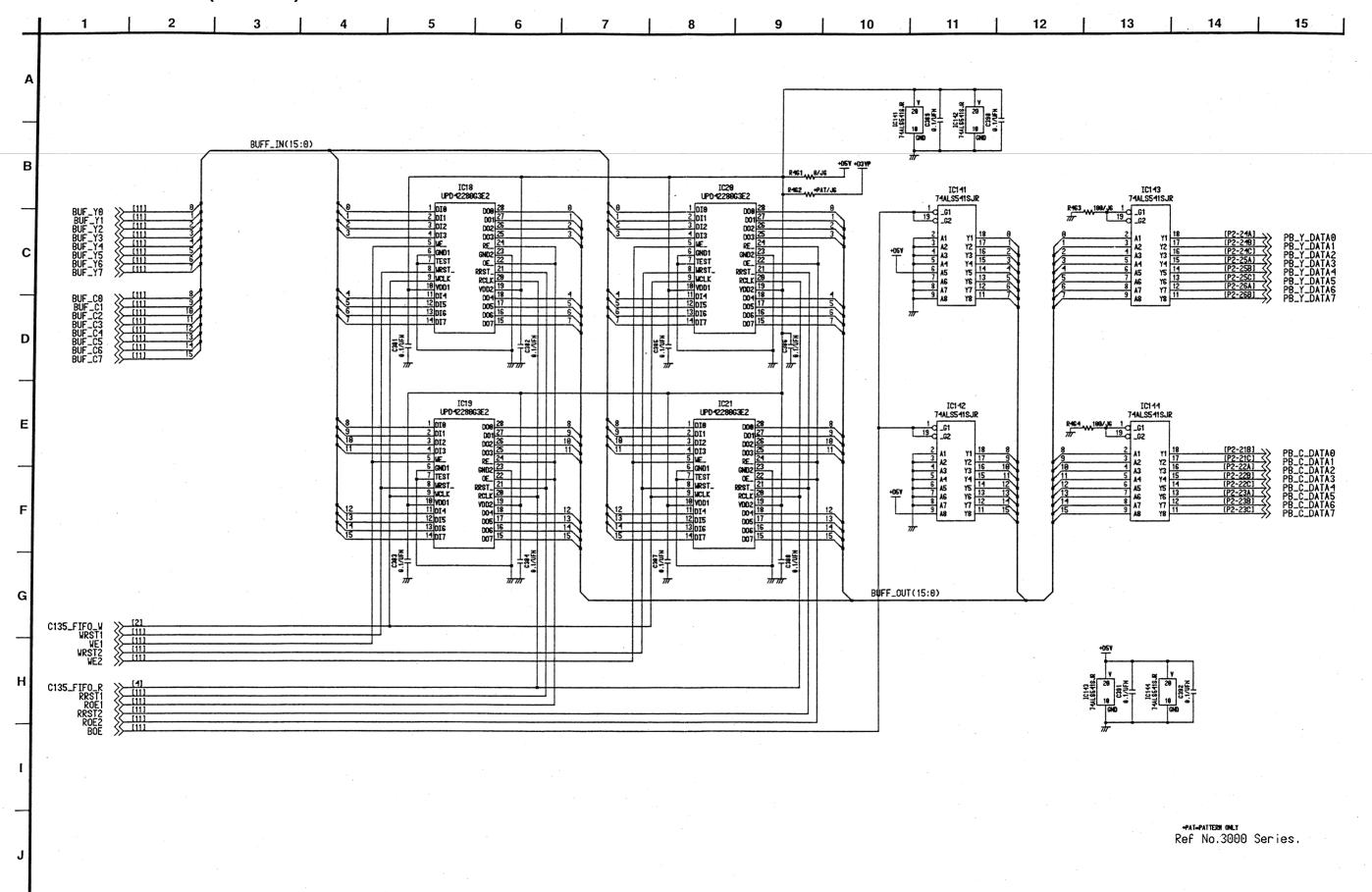
## REC PB PB SHUF (F5 10/23) SCHEMATIC DIAGRAM



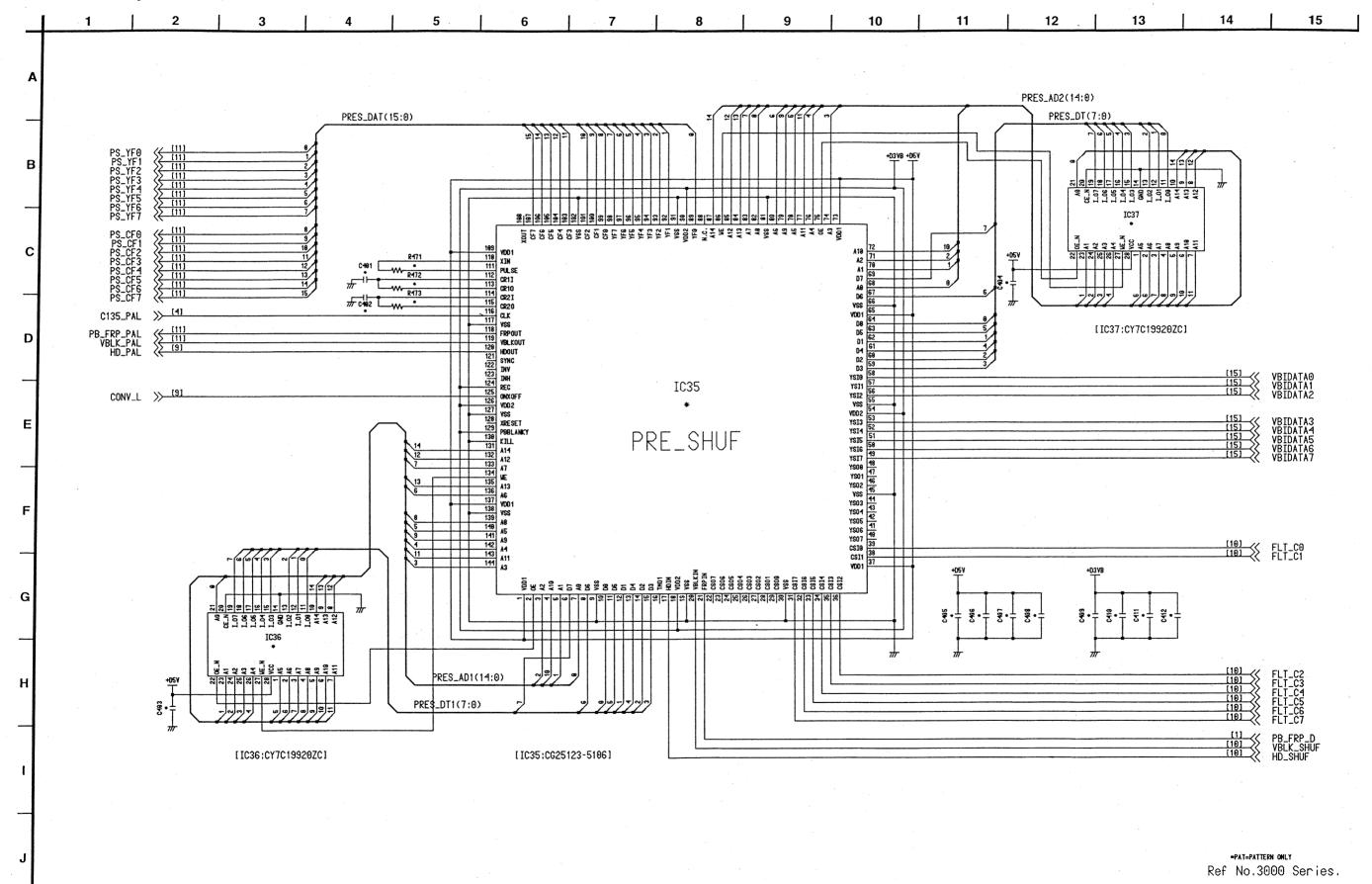


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### REC PB OUT BUFF2 (F5 12/23) SCHEMATIC DIAGRAM

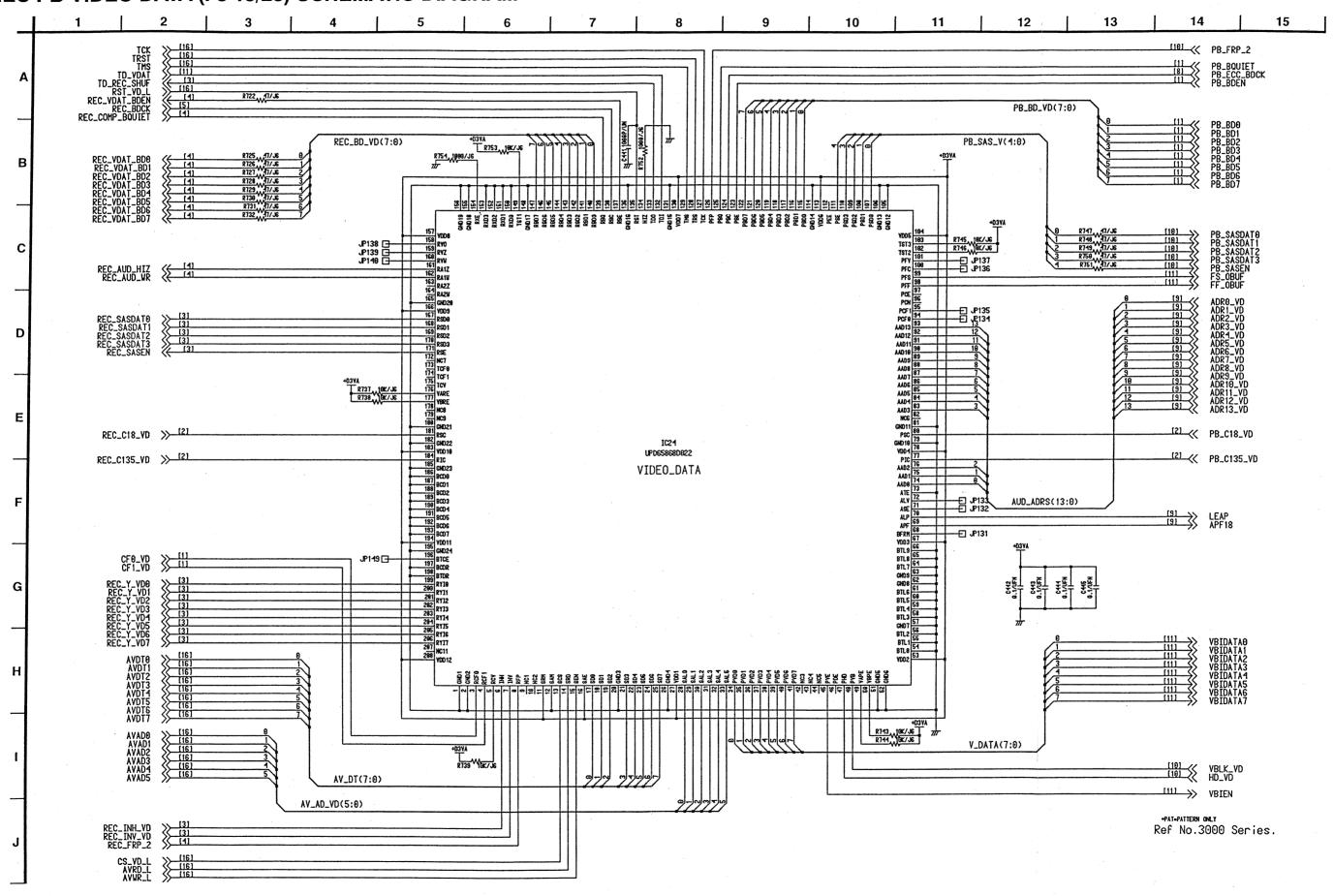


### **REC PB PAL (F5 13/23) SCHEMATIC DIAGRAM**



#### REC PB REC PB CTRL (F5 14/23) SCHEMATIC DIAGRAM 7 13 14 8 9 10 11 12 15 REC\_L REC\_SPA TCK TRST TMS TD\_TCTL REC\_FRP\_2 REC\_TMBEN REC\_HID C18\_TC SBE +D5V R481\_\_\_\_\_8/J6 В IC148 T74VHC74FTP1 +D3VPE IC23 UPD42289G3E2 R482 PAT/J6 +D3VA 3 DI2 4 DI3 5 ME\_ 6 GND1 7 TEST 9 WCLK 19 VOD1 11 DI4 E 12 DI5 3 DI6 14 DI7 > ark 원 교육 9.1.0FN [sheet8] REC\_C18\_DCI >>\_[2] DEDP\_DLY(4:0) DEDP\_RP(4:0) 1191 FECTRL1\_3V FECTRL0\_3V IC22 UPD65843G026 FE\_CTRL1 RECPB\_CTRL ABB IC146 T74LCX244FEL 199/J6 640 5837 P. P 0EDP\_P0 DEDP\_P0 DEDP\_P1 DEDP\_P1 DEDP\_P3 B881 P WRS T 8881 P WRS T 8881 P WRS T 8881 P WRS T RR S BER T RR C R TR A R489 PAT/J6 R498 PAT/J6 R498 PAT/J6 R492 PAT/J6 R492 PAT/J6 R493 PAT/J6 R494 PAT/J6 R495 PAT/J6 R495 PAT/J6 R497 PAT/J6 R498 PAT/J6 R498 PAT/J6 ATFCLK HSE PB\_FRP\_2 PB\_HID AVADO AVADO AVADO AVADO AVADO AVADO IC147 T74LCX244FEL 199/J6 AVDT1 AVDT2 AVDT3 AVDT4 AVDT5 AVDT6 AVDT7 INS\_DEDP(4:0) INS\_SBSTP\_R INS\_DEDP\_R0 INS\_DEDP\_R1 INS\_DEDP\_R2 INS\_DEDP\_R3 174LCX244FEL 0.174FN AV\_BUS(16:0) DEDP\_PB(4:0) -PAT=PATTERN ONLY Ref No.3000 Series. 2-99 2-99

### REC PB VIDEO DATA (F5 15/23) SCHEMATIC DIAGRAM



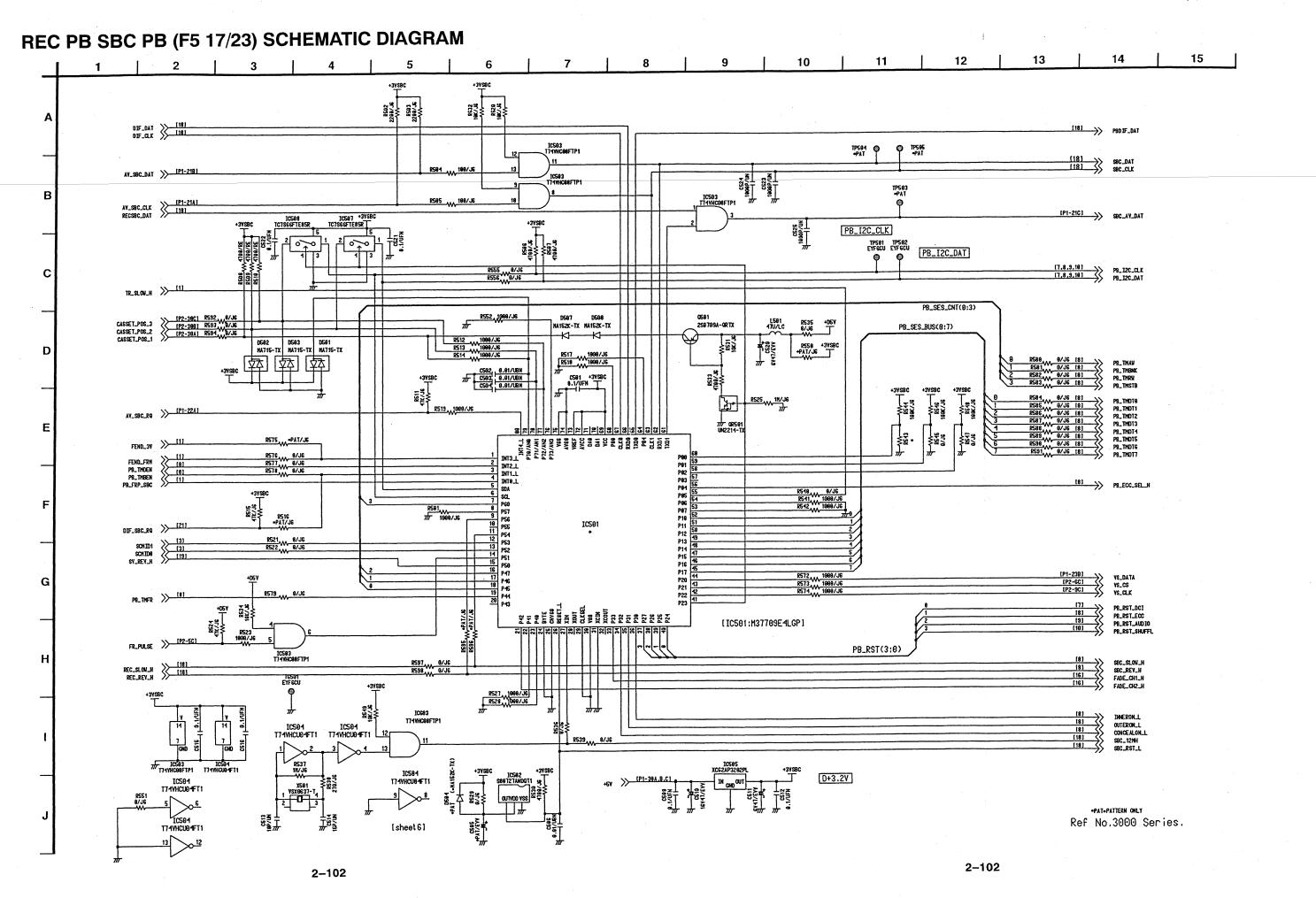
### REC PB PIO (F5 16/23) SCHEMATIC DIAGRAM 14 6 7 10 11 12 13 15 IC151 74ALS541SJR 1141 CS\_TC\_L 1151 CS\_VD\_L IC149 SN7481051NSR [14,15] [14,15] [14,15] [14,15] [14,15] [14,15] | P1-26A| | P1-25C| | P1-25B| | P1-25A| | P1-24C| | P1-24B| | P1-24A| | P1-23C| AVADO AVAD1 AVAD2 AVAD3 AVAD4 AVAD5 D9 D8 D7 GND2 [14.15] AVWR\_L [14.15] AVRD\_L AV\_ADRS(7:0) 1191 TSR\_L 11-15A1 EQ\_HOLD\_H 11.211 DIF\_IN\_L IC152 74ALS541SJR R762 199/J6 1 G1 G1 G2 Y3 15 Y4 15 Y5 13 Y6 12 Y7 11 Y8 11 PI010(7:0) IC153 74ALS245ASJR [14.15] [14.15] [14.15] [14.15] [14.15] [14.15] [14.15] [14.15] [14.15] [14.15] [14.15] [14.15] [14.15] AVDTO AVDT1 AVDT2 AVDT3 AVDT4 AVDT5 AVDT6 AVDT7 IC150 SN74S1051NSR 16 VCC2 15 D12 14 D11 13 D19 12 D9 11 D8 19 D7 9 GND2 AVDT(7:0) AV\_DATA(7:0) 85.5 8.35 IC156 T74VHC244FT1 TD\_END > [19] AV\_RST\_L >> [P1-27A] RST\_VD\_L RST\_DFF\_L

-PAT=PATTERN ONLY

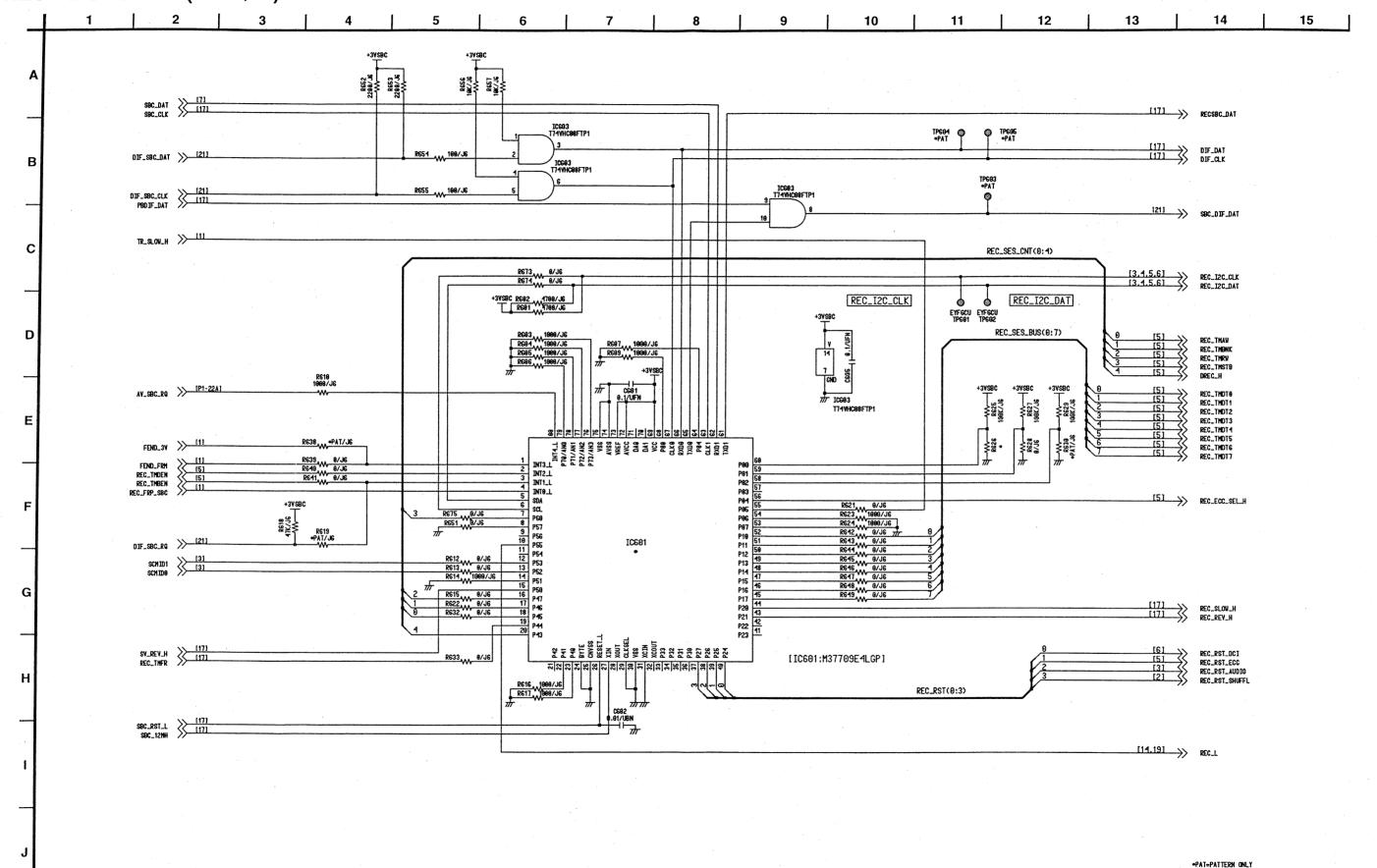
2-101

Ref No.3000 Series.

VIDE-V18115 / DRUCK26



### REC PB SBC REC (F5 18/23) SCHEMATIC DIAGRAM

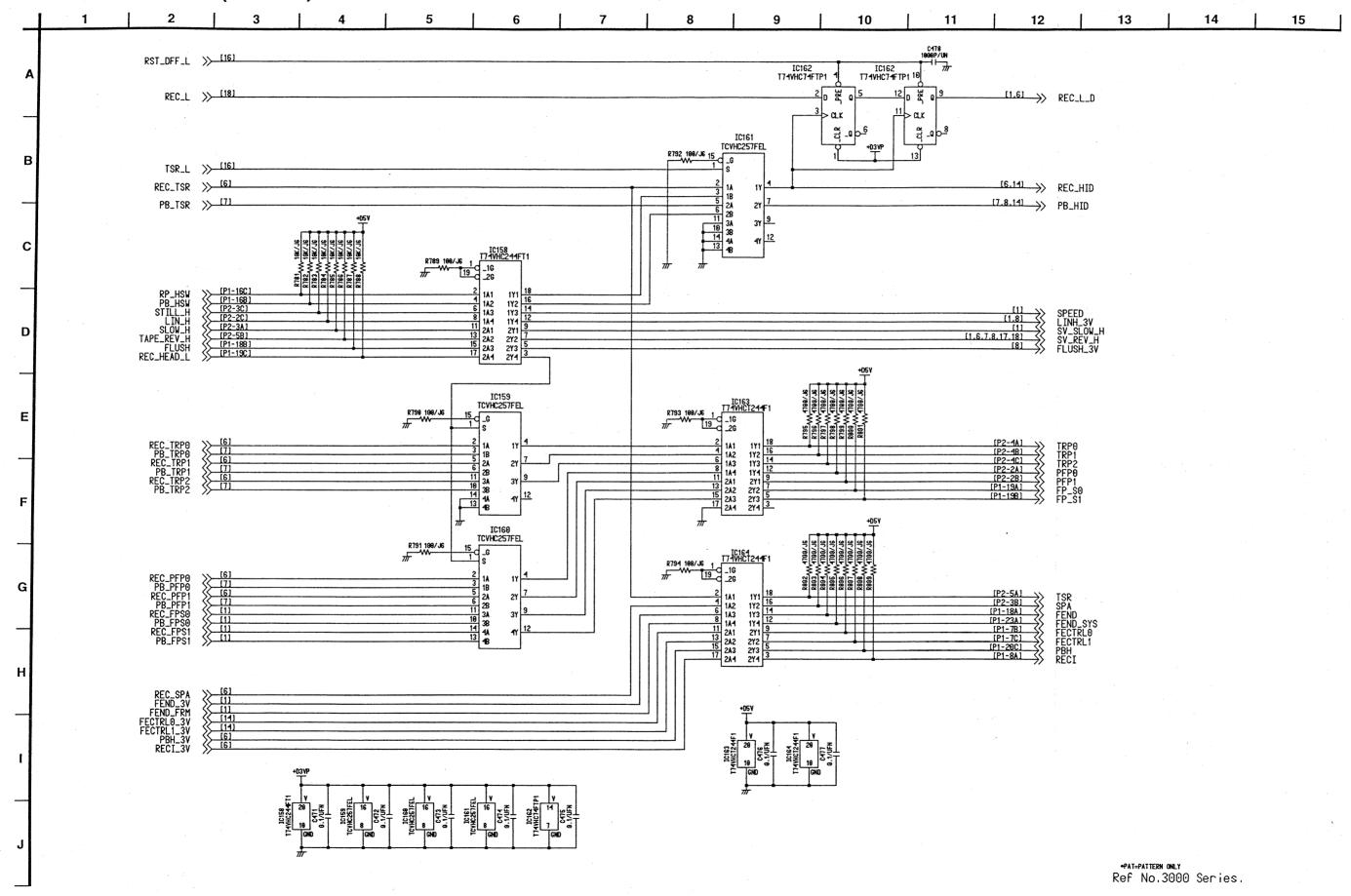


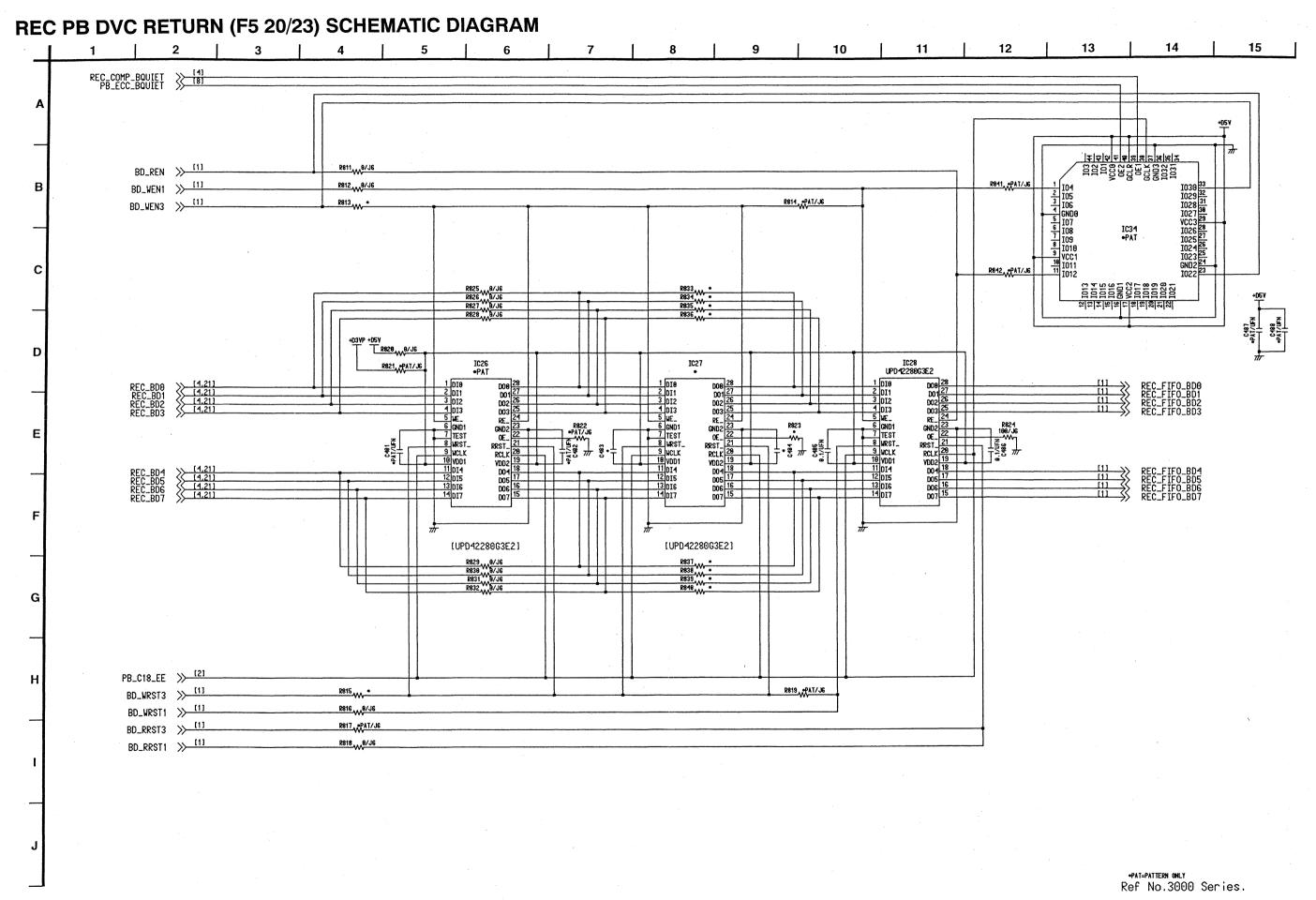
-

2-103

Ref No.3000 Series.

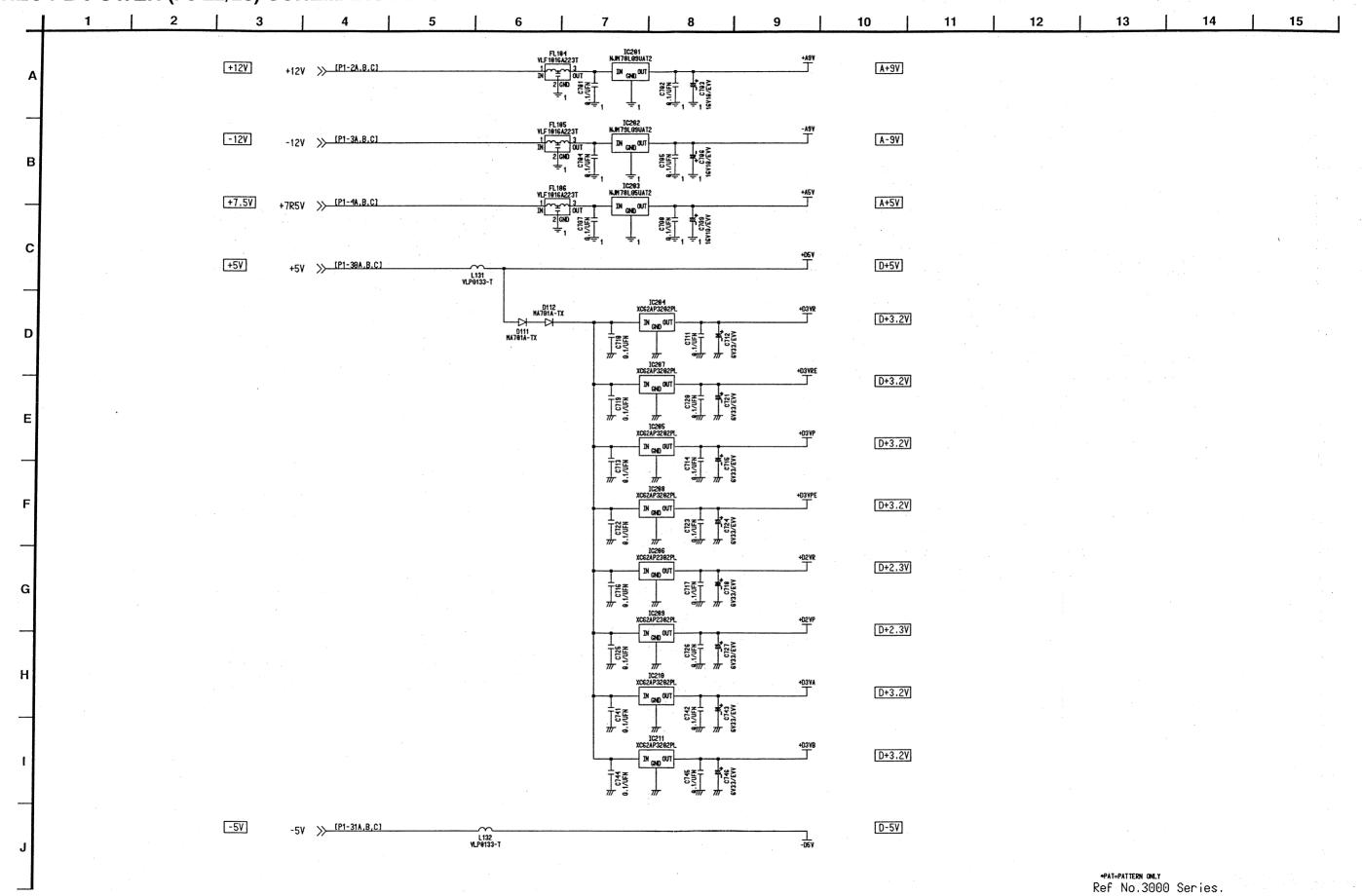
### REC PB SERVO SEPA (F5 19/23) SCHEMATIC DIAGRAM

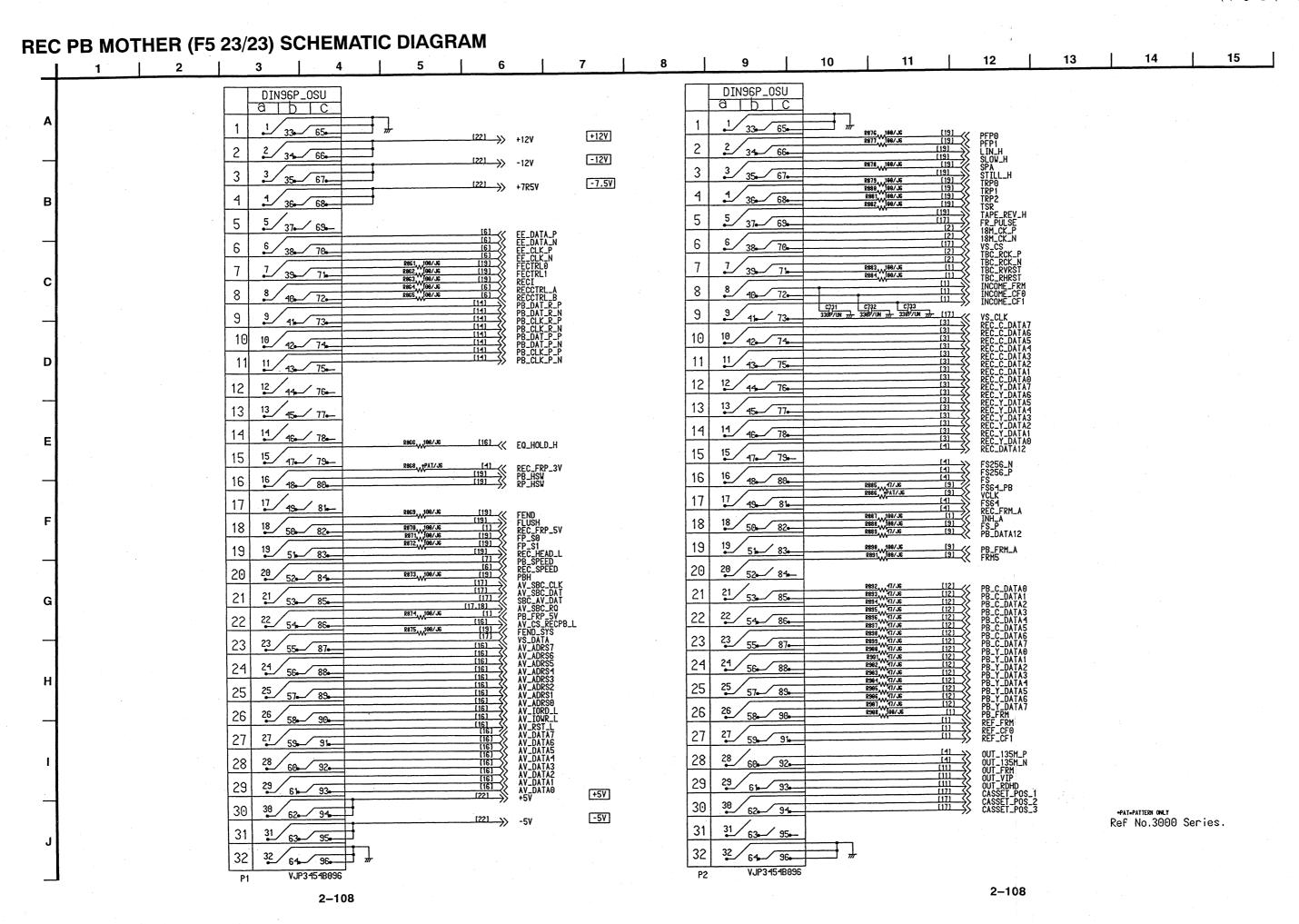




## REC PB DIF (F5 21/23) SCHEMATIC DIAGRAM 12 15 10 11 8 DV\_BUS(10:0) IC165 T74VHC245FT1 19 G \_G DIR REC\_COMP\_BQUIET REC\_BDCK 151 IC166 T74VHC245FT1 IC169 TC7894FTE85R 19 G G DIR DIF\_IN\_L >> [16] EC\_BDEN 2 1A1 1Y1 1 1A2 1Y2 6 1A3 1Y3 1 1A4 1Y4 1 13 2A1 2Y1 1 2A1 2Y1 1 2A2 2Y2 1 2A3 2Y3 1 2A4 2Y4 PB\_BD0 PB\_BD1 PB\_BD2 PB\_BD3 PB\_BD4 PB\_BD5 PB\_BD6 PB\_BD7 1181 >> DIF\_SBC\_CLK ECC\_SLOW\_H BD\_WR BD\_HIZ1 DIF\_FRM DIF\_CF RECPB\_FRP PB\_FPS0 PB\_FPS1 OUT\_FRM\_DIF DIF\_FEND ECC\_FEND C18\_DIF >> [2] -PAT=PATTERN ONLY Ref No.3000 Series.

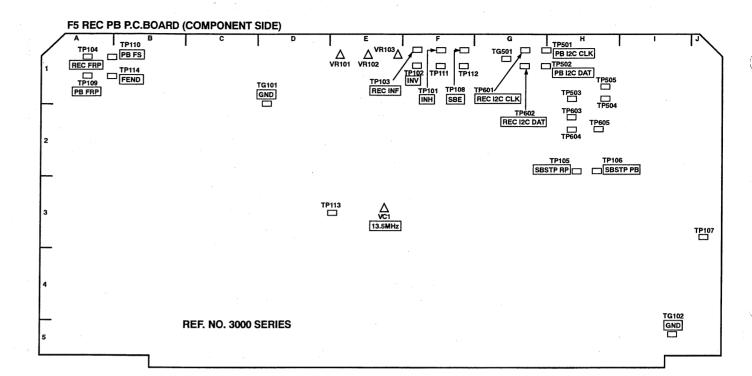
### REC PB POWER (F5 22/23) SCHEMATIC DIAGRAM

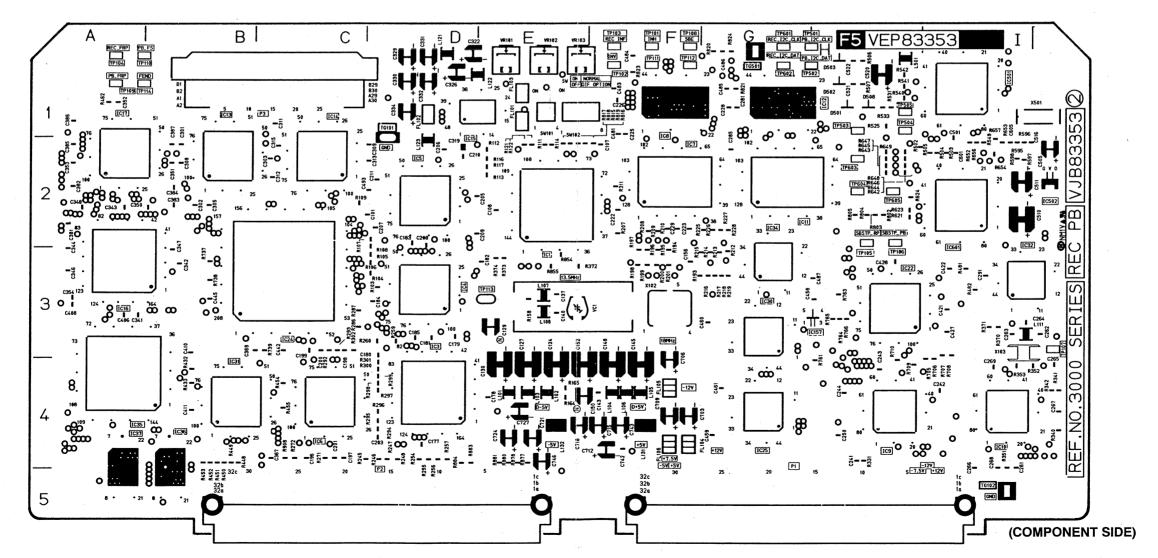




## F5 REC PB P.C.BOARD (VEP83353A) (FOR NTSC) (VEP83353B) (FOR PAL)

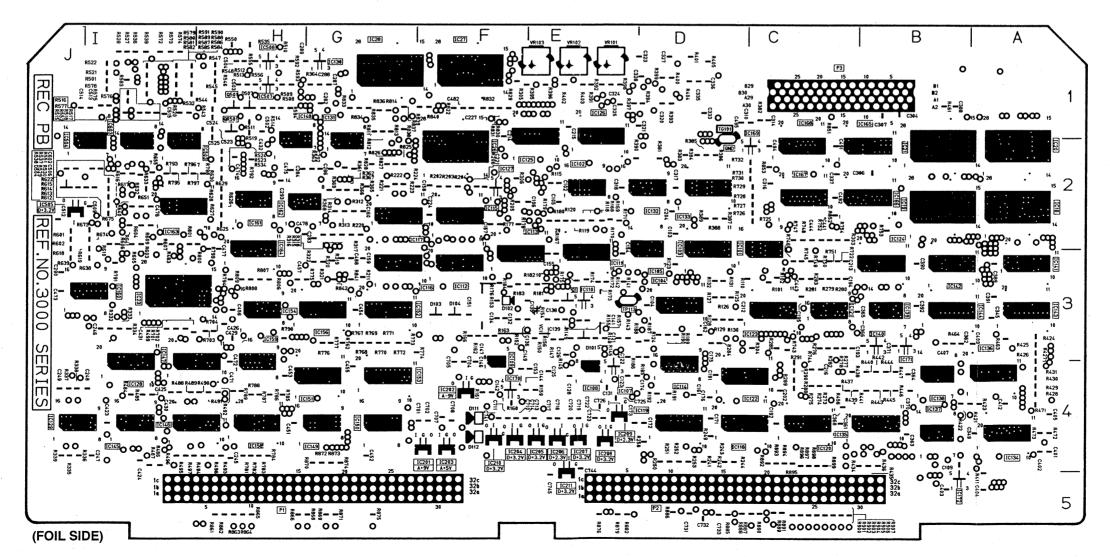
	F5	REC PB (CC	DMPONENT	SIDE)	
ntegrated Circui	its	IC35	A-4	TP114	A-1
IC1	E-2	IC36	B-4	TP501	G-1
IC3	D-4	IC37	A-4	TP502	G-1
IC4	D-3	IC157	H-3	TP503	H-1
IC5	D-2	IC501	I-1	TP504	H-1
IC6	C-4	IC502	J-2	TP505	H-1
IC7	F-2	IC601	1-2	TP601	G-1
IC8	F-1	Test Points		TP602	G-1
IC9	H-4	TG101	D-1	TP603	H-2
IC10	1-4	TG102	I-5	TP604	H-2
IC11	G-2	TG501	G-1	TP605	H-2
IC12	G-1	TP101	F-1	Adjustments	
IC13	B-2	TP102	F-1	VC1	E-3
IC14	C-2	TP103	F-1	VR101	E-1
IC15	D-1	TP104	A-1	VR102	E-1
IC16	A-3	TP105	H-2	VR103	E-1
IC17	A-2	TP106	H-2	Connectors	
IC22	H-3	TP107	J-3	P1	G-5
IC24	C-3	TP108	F-1	P2	D-5
IC25	G-4	TP109	A-1	P3	C-1
IC30	G-3	TP110	A-1	1	
IC31	B-4	TP111	F-1		
IC32	1-3	TP112	F-1		
IC34	G-3	TP113	E-3		





				F5 RI	C PB (FOIL	SIDE)			-
Transistors		IC113	F-3	IC137	B-4	IC163	1-2	IC507	H-1
Q501	H-1	IC114	D-4	IC138	B-4	IC164	H-3	IC508	H-1
Transistor & Re	esistors	IC115	F-2	IC139	B-3	IC165	B-2	IC603	1-2
QR501	H-1	IC116	G-3	IC140	B-3	IC166	B-2	Test Points	
Integrated Circ	uits	IC117	G-2	IC141	A-3	IC167	C-2	TG101	D-2
IC18	A-2	IC118	D-4	IC142	B-3	IC168	C-2	TP113	E-3
IC19	B-2	IC119	D-4	IC143	A-3	IC169	C-2	Adjustments	
IC20	A-2	IC120	C-4	IC144	B-3	IC170	F-4	VC1	E-3
IC21	B-2	IC121	C-3	IC145	1-4	IC171	B-3	VR101	E-1
IC23	1-3	IC122	C-4	IC146	I-4	IC172	B-5	VR102	E-1
IC26	F-2	IC123	C-3	IC147	I-4	IC201	F-4	VR103	E-1
IC27	F-1	IC124	B-3	IC148	H-2	IC202	F-4	Connectors	
IC28	G-1	IC125	E-1	IC149	G-4	IC203	F-4	P1	H-5
IC101	C-2	IC126	E-1	IC150	G-4	IC204	F-4	P2	D-5
IC102	E-2	IC127	F-2	IC151	G-4	IC205	E-4	P3	C-1
IC103	D-2	IC128	I-4	IC152	G-3	IC206	E-4		
IC104	D-3	IC129	J-4	IC153	G-4	IC207	E-4		
IC105	D-2	IC130	G-1	IC154	H-3	IC208	E-4	1	
IC107	E-4	IC131	G-2	IC156	G-3	IC209	E-4		
IC108	E-4	IC132	D-2	IC158	H-4	IC210	F-4		
IC109	F-4	IC133	D-2	IC159	H-3	IC211	E-5	1	-
IC110	E-3	IC134	A-4	IC160	I-3	IC503	I-2		
IC111	E-3	IC135	B-4	IC161	H-2	IC504	J-2		
IC112	F-3	IC136	A-4	IC162	H-2	IC505	J-2		

ADDRESS INFORMATION



3-7

## Supplement to the Service Manual

**Broadcast Product** 

### Subject: Introduction of New Servo P.C. Board

Please use this supplement together with the Service Manual as follows :				
Model No.	Bulletin No.	Order No.	Effective from	
AJ-D750E/EN	91	VSD9606M502A/B	E7TRB0001	
AJ-D650E	66	VSD9612MJ01A/B	E7TRA0001	
AJ-D640E	66	VSD9612MJ01A/B	E7TRA0001	

Board: Servo (F1:VEP82105B)

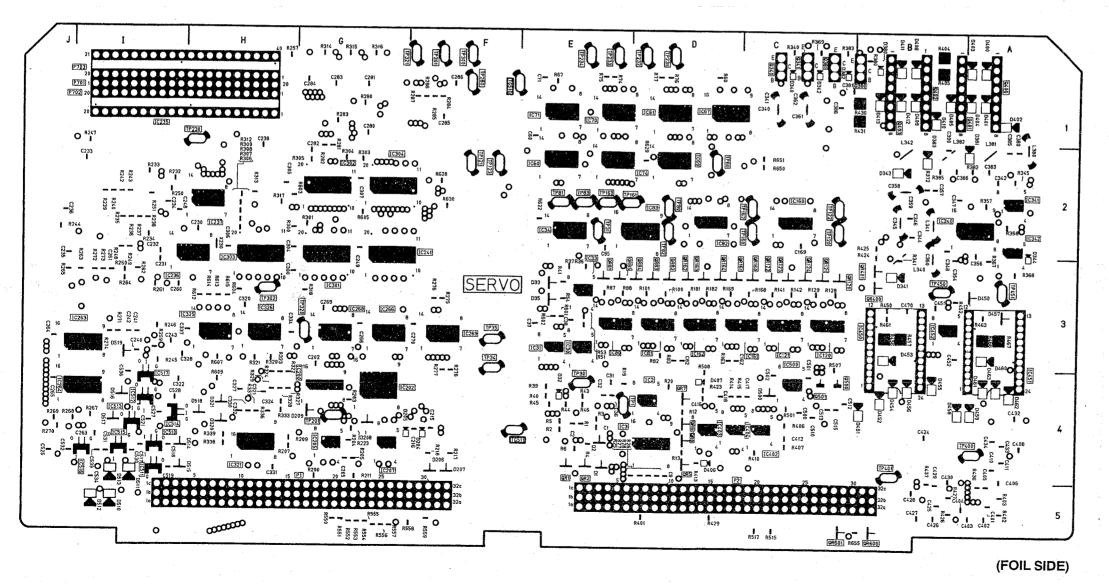
To improve the manufacturing productivity, a new F1 Servo P.C. Board (VEP82105B-1 / VJB82105-2) is introduced. This Technical Bulletin contains the following items.

- 1). Parts List (Changed parts only)
- 2). P.C. Board Layout

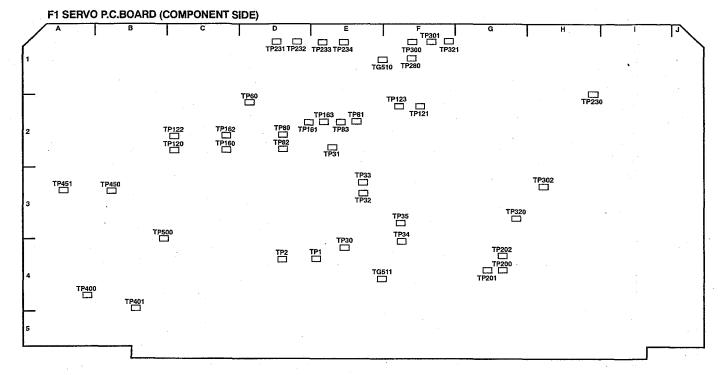
F1 Servo (VEP82105B-1 / VJB82105-2)

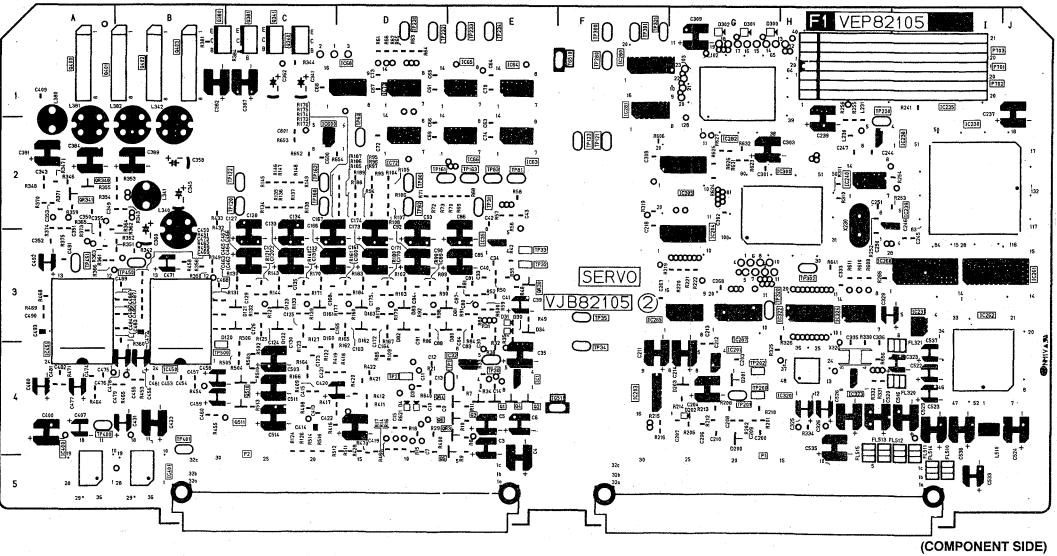
Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
C335, 36		ECUM1H080DCN	C. CAPACITOR CH 50V 8P	0→2	-
C412	ECUM1H103KBN	ECUM1E224ZFN	C. CAPACITOR CH 25V 0.024U	1 1	•
D36		MA152K	DIODE	0→1	
IC3	MC14052BF	TC4052BF	IC .	1 1	
IC324		T74VHCU04F	IC	0→1	
IC514	NJM78L05UA	XC62AP5002P	IC	1 1	
R204	VRE0034E332	ERJ6RBD303	M. RESISTOR CH 1/10W 30K	1	
R205	VRE0034E332	ERJ6RBD153	M. RESISTOR CH 1/10W 15K	1 1	
R223	ERJ6GEY0R00	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1 1	
R224	ERJ6GEY0R00	·	M. RESISTOR CH 1/10W 0	1→0	
R406, 07	ERJ6GEYJ223	ERJ6GEYG474	M. RESISTOR CH 1/10W 470K	2	
R656	ERDS2TJ101	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	11.	

## F1 SERVO P.C.BOARD (VEP82105A) (FOR NTSC) (VEP82105B) (FOR PAL)



		F1 SERVO(FOIL SIDE)						
	Transistors		IC302	G-2				
	Q304 Q341	C-1 C-1	IC303	H-3				
	Q380	B-1	IC304 IC321	G-2 H-4				
	Q381	C-1	IC325	H-4 H-3				
	Q400	A-1	IC326	H-3				
	Q401	A-1	IC340	B-2				
	Q402	B-1	IC341	A-2				
	Q403 Q500	B-1 C-4	IC342	A-2				
	Q500 Q501	C-4	IC402 IC403	C-4 D-4				
	Transistor & F		IC403	D-4 C-4				
	QR1	E-4	IC450	B-3				
	QR2	E-4	IC451	A-3				
	QR5 QR6	D-4	IC452	B-3				
	QR7	D-4 D-4	IC500 IC510	C-3				
	QR8	D-4	JC511	I-4 I-4				
	QR81	E-3	IC512	1-4				
	QR82	D-3	IC513	1-4				
	QR83	D-3 .	IC514	I-4				
	QR84 QR85	D-3 E-3	IC515	1-4				
	QR120	C-3	IC516 IC517	I-4 I-4				
	QR121	C-3	Test Points	1				
	QR122	C-3	TG510	F-1				
	QR123	C-3	TG511	F-4				
	QR124 QR160	C-3 C3	TP1	D-4				
	QR161	D-3	TP30	E-4 E-2				
	QR162	D-3	TP34	F-3				
	QR163	D-3	TP35	F-3				
	QR164	D-3	TP60	D-2				
	QR400 QR401	B-3 B-3	TP80	D-2				
	QR600	B-5	TP81 TP82	E-2 D-2				
	QR601	C-5	TP83	E-2				
	Integrated Circu		TP120	C-2				
	IC2	D-4	TP121	F-2				
Ì	IC3 IC30	E-4 E-3	TP122 TP123	C-2 F-2				
	IC31	E-3	TP160	C-2				
- 1	IC33	E-3	TP161	E-2				
- 8	IC34	E-2	TP162	C-2				
-	IC60 IC61	E-2	TP163	E-2				
	IC67	D-1 D-1	TP201 TP230	G-4 H-1				
i	IC69	D-2	TP231	D-1				
	IC70	E-1	TP232	D-1				
.	IC71	E-1	TP233	E-1_				
.	IC74 IC80	E-2	TP234	E-1				
	IC80	E-3 D-3	TP280 TP300	F-1 F-1				
	IC82	D-2	TP301	F-1				
	IC83	D-2	TP302	H-3				
1	IC120.	C-3	TP320	G-3				
- 1	IC121	C-3	TP321	F-1				
	IC160 IC161	C-2 C-3	TP400 TP401	A-4				
	IC162	D-3	TP450	B-4 B-3				
	IC200	G-4	TP451	A-3				
	IC202	<u>_</u>	Connectors					
	IC205	G-4	P1	G-5				
	IC207 IC235	G-4 . I-1	P2	D-5				
	IC235	1-1 1-3	P701 P702	I-1 I-1				
I	IC237	H-2	P702	J-1				
	IC241	F-2		··				
	IC263	1-3	1	ĺ				
1	IC264	J-4						
	IC266 IC268	G-3	. 1	· ·				
	IC268	G-3 F-3		•				
L	IC301	G-3	].	ı				
A	DDRESS INFOR							





F1	SERVO(CO	MPONENT S	IDE)					
Transistors	,	TP80	D-2					
Q1	E-4	TP81	E-2					
Q2	E-4	TP82	D-2					
Q3	E-4	TP83	E-2					
Q4	E-4	TP120	C-2					
Q5	E-4	TP121	F-2					
Q6	D-4	TP122	C-2					
Q340	C-1	TP123	F-2					
Q341	C-1	TP160	C-2					
Q380	B-1	TP161	D-2					
Q381	C-1	TP162	C-2					
Q400	A-1	TP163	E-2					
Q401	A-1	TP200 TP201	G-4					
Q402	B-1	(	G-4 G-4					
Q403	B-1	TP202 TP230	G-4 H-1					
Q510	C-4 C-4	TP230	D-1					
Q511	<del></del>	TP232	D-1 D-1					
Transistor & Re	E-4	TP232	E-1					
QR4	D-4	TP234	E-1					
	E-3	TP280	F-1					
QR30 QR340	A-2	TP300	F-1					
QR341	A-2 A-2	TP300	F-1:					
Integrated Circ		TP302	H-3					
IC1	E-4	TP320	G-3					
IC32	E-4	TP321	F-1					
IC35	E-3	TP400	A-4					
IC63	E-2	TP401	B-4					
IC64	E-1	TP450	B-3					
IC65	E-1	TP451	A-3					
IC66	E-2	TP500	B-4					
IC68	D-1	Connectors						
IC72	D-2	P1	G-5					
IC73	D-1	P2	C-5					
IC201	G-4	P701	<b>⊱</b> 1					
IC203	F-4	P702	l-1					
IC204	G-3	P703	i-1					
IC230	1-2	<b>.</b>	i					
IC231	1-3	<u>.</u>						
IC235	3-1							
IC238	1-2							
IC239	1-2		i					
IC240	H-2		1					
1C260	I-3							
IC261	J-3	Į						
IC262	1-3		,					
IC265	F-3	<b>i</b> 1						
IC267	G-3							
. IC280	F-1							
IC281	F-1							
IC282	G-2							
IC300	G-2		1					
IC305	G-2	1	1					
IC320	H-4		1					
IC322	H-3							
IC323	H-4							
IC324	H-3							
IC400	A-4							
IC401	B-5		j					
IC450	B-4							
IC451	A-4	· .						
IC600	C-2	]						
Test Points			į					
TG510	F-1							
TG511	F-4							
TP1	E-4							
TP2	D-4							
TP30	E-4	·	1					
TP31	E-2	[	ĺ					
TP32	E-3							
TP33	E-3							
TP34	F-4							
TP35	F-3	'						
TP60	D-2							

## Supplement to the Service Manual

**Broadcast Product** 

### Subject: Standardization of T4 Arm Unit

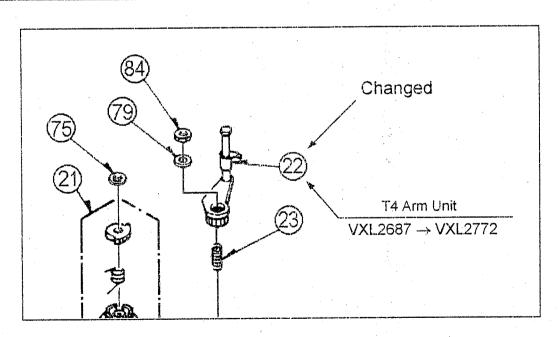
lease use this supplement to			
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	92	VSD9606M502A	F7TRB0001
AJ-D650E	67	VSD9612MJ01A	F7TRA0001
AJ-D640E	67	VSD9612MJ01A	F7TRA0001

#### Mechanical Chassis Assembly (2)

#### Reason for Change

- The following part(s) has(have) been changed for serviceability improvement.
- The following part(s) has(have) been changed for productivity improvement.
- The following part(s) has(have) been changed for standardization.
- The following part(s) has (have) been changed for the safety regulation.

Part Number				,	
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
22	VXL2687	VXL2772	T4 ARM U	. 1	



M1483TM3591



## Supplement to the Service Manual

**Broadcast Product** 

### Subject: Improvement of Reel Motor Unit

ease use this supplement to	gether with the Service Manual	as follows:	:
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	93	VSD9606M502A	F7TRB0001
AJ-D650E	68	VSD9612MJ01A	F7TRA0001
AJ-D640E	68	VSD9612MJ01A	F7TRA0001

#### Mechanical Chassis Assembly (1)

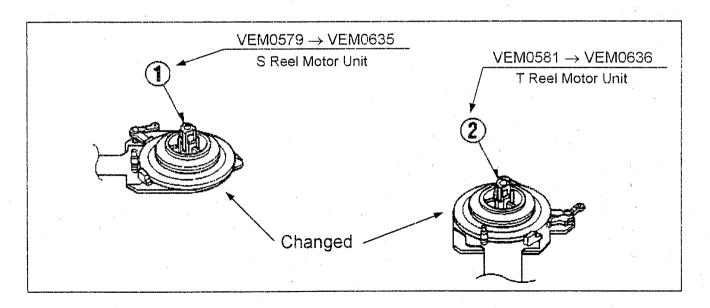
Symptom: Reel Motor (Rotor portion) may take off from the Stator portion during transportation.

Remedy : To prevent it, the Rotor portion of Reel Motor is united with the Stator portion of Reel Motor and the

Rotor Stopper is added to the Reel Motor as shown below.

According to this change, the 5-2. Cassette Height Position Pin Adjustment is not required.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks *
1	VEM0579	VEM0635	S REEL MOTOR U	1	
2	VEM0581	VEM0636	T REEL MOTOR U	1	



M1451TM3485

## **Panasonic**

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## Supplement to the Service Manual

**Broadcast Product** 

## Subject: Improvement of Crystal Oscillator

Please use this supplement together with the Service Manual as follows:						
Model No.	Bulletin No.	Order No.	Effective from			
Δ LD750F/FN)// 26	41/7747 95	VSD9606M502A/B	G7TRB0001			
AJ-D750E/EN W 7/26	WABUL 69	VSD9612MJ01A/B	G7TRA0001			
AJ-D640E -/6- #	/ l 69	VSD9612MJ01A/B	G7TRA0001			

Board: System Control (F2:VEP86146B) - AJ-D750

System Control (F2:VEP86146E) - AJ-D650 System Control (F2:VEP86146F) - AJ-D640

Symptom: Crystal Oscillator for Time Code Gate Array may be malfunctioned.

Cause : Due to a little margin of the Crystal Oscillator.

Remedy: To prevent it, capacitor C727 is changed from 50V/18pF to 50V/5pF on the component side as shown

below.

Part Number					
	Ovining   Dort No	New Part No.	Part Name & Descriptions	Pcs	Remarks
Ref. No.	Original Part No. ECUM1H180JCN			1	
C727	ECOMITATIONS	LCCW1110000014	1 0. 0		

#### AJ-D750

Ref. No.	Schemati	c Diagram	P.C.Board	
1/61, 140.	Page	Area No.	Page	Area No.
C727	2-41	C-9 (11/14)	3-4	I-2 (C)

#### A.I-D650/D640

Г	Ref. No.	Schemati	c Diagram	P.C.Board		
		Page	Area No.	Page	Area No.	
$\vdash$	C727	2-41	E-5 (11/14)	3-4	I-2 (C)	

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## Supplement to the Service Manual

**Broadcast Product** 

### Subject: Deletion of Parts

Please use this supplement together with the Service Manual as follows:						
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D750E/EN W7726+VA	7727 96	VSD9606M502A/B	G7TRB0001			
AJ-D650E MBU5+WE	3Ub 70	VSD9612MJ01A/B	G7TRA0001			
AJ-D640E -12 +-14		VSD9612MJ01A/B	G7TRA0001			

Board: RF AMP (H4:VEP85049A)

To improve the manufacturing productivity, the following parts are deleted.

1). Delete capacitors (25V/0.1 $\mu$ F) C5095, C5096, C5097, C5102, C5112, C5114 and C5115 from the component side.

2). Delete capacitors (25V/0.1 $\mu$ F) C5098, C5101, C5103, C5104 and C5113 from the foil side.

3). Delete IC5001 and IC5018 (TL084CNS) and IC5019 (NJM082BM) from the component side.

4). Delete IC5012 (NJM082BM) from the foil side.

5). Delete variable resistors (5ΚΩ) VR5001, VR5002, VR5003, VR5004, VR5005, VR5006, VR5007, VR5008, VR5009, VR5010, VR5011 and VR5012 from the component side.

Part Number							
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks		
C5095 - 98	ECUM1E104ZFN		C. CAPACITOR CH 25V 0.1U	4→0			
C5101 - 04	ECUM1E104ZFN		C. CAPACITOR CH 25V 0.1U	4→0			
C5112 - 15	ECUM1E104ZFN		C. CAPACITOR CH 25V 0.1U	4→0			
IC5001	TL084CNS		IC ·	1→0			
IC5012	NJM082BM		IC	1→0			
C5018	TL084CNS		IC	1→0			
IC5019	NJM082BM		l IC	1-→0			
VR5001-12	VRV0112B502		V. RESISTOR 5K	12→0			

#### A.I-D750

Ref. No.	Schematic Diagram		P.C.Board	
,	Page	Area No.	Page	Area No.
C5095	2-175	D-4 (2/5)	3-13	C~D-1 (C)
C5096	2-175	D-4 (2/5)	3-13	C-1 (C)
C5097	2-175	E-4 (2/5)	3-13	C-1 (C)
C5098	2-175	E-4 (2/5)	3-13	C-1 (F)
C5101	2-175	E-4 (2/5)	3-13	A-1 (F)
C5102	2-175	F-4 (2/5)	3-13	A-1 (C)
C5103	2-175	F-4 (2/5)	3-13	A-1 (F)
C5104	2-175	G-4 (2/5)	3-13	A-1 (F)

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Ref. No.	Schemat	ic Diagram	P.C	C.Board
	Page	Area No.	Page	Area No.
C5112	2-175	G-4 (2/5)	3-13	C~D-1 (C)
C5113	2-175	H-4 (2/5)	3-13	B-1 (F)
C5114	2-175	H-4 (2/5)	3-13	B-1 (C)
IC5001	2-175	G-3 (2/5)	3-13	B-1 (C)
IC5012	2-175	F-2 (2/5)	3-13	A-1 (F)
IC5018	2-175	D-2 (2/5)	3-13	C-1 (C)
IC5019	2-175	E-3 (2/5)	3-13	A-1 (C)
VR5001	2-175	D-2 (2/5)	3-13	D-1 (C)
VR5002	2-175	D-2 (2/5)	3-13	D-1 (C)
VR5003	2-175	D-2 (2/5)	3-13	D-1 (C)
VR5004	2-175	E-2 (2/5)	3-13	D-1 (C)
VR5005	2-175	E-2 (2/5)	3-13	A-1 (C)
VR5006	2-175	F-2 (2/5)	3-13	A-1 (C)
VR5007	2-175	F-2 (2/5)	3-13	B-1 (C)
VR5008	2-175	F-2 (2/5)	3-13	B-1 (C)
VR5009	2-175	G-2 (2/5)	3-13	C-1 (C)
VR5010	2-175	G-2 (2/5)	3-13	B-1 (C)
VR5011	2-175	H-2 (2/5)	3-13	C-1 (C)
VR5012	2-175	H-2 (2/5)	3-13	C-1 (C)

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Ref. No.	Schematic	Diagram	P.C.Bo	oard
	Page	Area No.	Page	Area No.
C5095	2-137	D-3 (2/5)	3-11	C~D-1 (C)
C5096	2-137	D-3 (2/5)	3-11	C-1 (C)
C5097	2-137	D-3 (2/5)	3-11	C-1 (C)
C5098	2-137	D-3 (2/5)	3-11	C-1 (F)
C5101	2-137	C-3 (2/5)	3-11	A-1 (F)
C5102	2-137	C-3 (2/5)	3-11	A-1 (C)
C5103	2-137	C-3 (2/5)	3-11	A-1 (F)
C5104	2-137	C-3 (2/5)	3-11	A-1 (F)
C5112	2-137	B-3 (2/5)	3-11	C~D-1 (C)
C5113	2-137	B-3 (2/5)	3-11	B-1 (F)
C5114	2-137	B-3 (2/5)	3-11	B-1 (C)
IC5001	2-137	B-3 (2/5)	3-11	B-1 (C)
IC5012	2-137	C-2 (2/5)	3-11	A-1 (F)
IC5018	2-137	D-2 (2/5)	3-11	C-1 (C)
IC5019	2-137	C-3 (2/5)	3-11	A-1 (C)
VR5001	2-137	D-2 (2/5)	3-11	D-1 (C)
VR5002	2-137	D-2 (2/5)	3-11	D-1 (C)
VR5003	2-137	D-2 (2/5)	3-11	D-1 (C)
VR5004	2-137	D-2 (2/5)	3-11	D-1 (C)
VR5005	2-137	C-2 (2/5)	3-11	A-1 (C)
VR5006	2-137	C-2 (2/5)	3-11	A-1 (C)
VR5007	2-137	C-2 (2/5)	3-11	B-1 (C)
VR5008	2-137	C-2 (2/5)	3-11	B-1 (C)
VR5009	2-137	B-2 (2/5)	3-11	C-1 (C)
VR5010	2-137	B-2 (2/5)	3-11	B-1 (C)
VR5011	2-137	B-2 (2/5)	3-11	C-1 (C)
VR5012	2-137	B-2 (2/5)	3-11	C-1 (C)

Order No. VSD9710SA698

# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

### Subject: Mechanical Chassis Unit Supply Information

Please use this supplement together with the Service Manual as follows :						
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D750E/EN	98	VSD9606M502A				
AJ-D650E /	. 71	VSD9612MJ01A	,			
AJ-D640E √	71	VSD9612MJ01A				
AJ-LT75E	16	VSD9707M602A				
AJ-D230E	13	VSD9708M605	,			

Mechanical Chassis Assembly (2)

To improve the serviceability and manufacturing productivity, the Mechanical Chassis unit is supplied without the Cassette Compartment Unit as follows.

#### AJ-D750

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
	VXY1168	VXY1254Z1	MECHANICAL CHASSIS U	1	

#### AJ-D650/D640

Part Number							
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks		
	VXY1254	VXY1254Z1	MECHANICAL CHASSIS U	1			

#### AJ-LT75/D230

Part Number							
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks		
	VXY1283	VXY1283Z1	MECHANICAL CHASSIS U	1			

TM3549TM3614

V17725# 2035033 V18M5# 2012074 W

Order No. VSD9710SA699

# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

### Subject: Change of T Loading Arm Unit

Please use this supplement together with the Service Manual as follows :						
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D750E/EN	99	VSD9606M502A	G7TRB0001			
AJ-D650E √	72	VSD9612MJ01A	G7TRA0001			
AJ-D640E √	72	VSD9612MJ01A	G7TRA0001			
AJ-D700E/EN	55	VSD9606M501A	G7TKA0001			

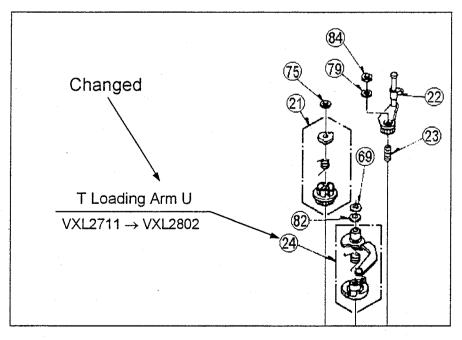
#### Mechanical Chassis Assembly (2)

Symptom: Linearity may not perform correctly.

Cause : T1 Boat Unit may not lock. It results in X value shift.

Remedy: To prevent it, the T Loading Arm Unit is changed from VXL2711 to VXL2802.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
24	VXL2711	VXL2802	T LOADING ARM U	1	



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## Supplement to the Service Manual

**Broadcast Product** 

### Subject : Change of Screws for Cassette Compartment

se use this supplement together with the Service Manual as follows :			
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	100	VSD9606M502A	G7TRB0001
AJ-D650E	73	VSD9612MJ01A	G7TRA0001
AJ-D640E	73	VSD9612MJ01A	G7TRA0001
AJ-LT75E	17	VSD9707M602A	G7TNA0001
AJ-D230E	14	VSD9708M605	I7TDA0001

#### Cassette Compartment Assembly

To improve the manufacturing productivity, the following screws are changed.

- 1). Screws for Wiper Racks are changed from VHD0678 to LMHD16061 as shown in figures 1 and 3.
- 2) Screws for Holder Flexible Unit are changed from VHD0678 to LMHD16061 as shown in figure 2.
- 3). Screws for Holder Flexible Unit are changed from XQN16+A25 to LMHD16061 as shown in figure 2.
- 4). Screws for Side Flexible are changed from XQN16+A2 to LMHD16061 as shown in figure 4.

Part Number					<del></del>
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
70	VHD0678	LMHD16061	FHA SCREW	6→10	
74	XQN16+A2		SCREW	2→0	
76	XQN16+A25		SCREW	2→0	4

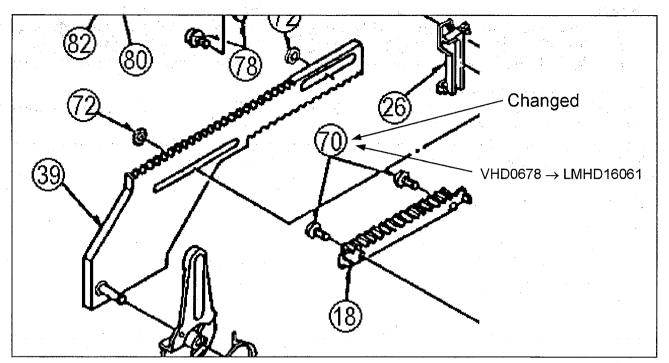


Fig. 1

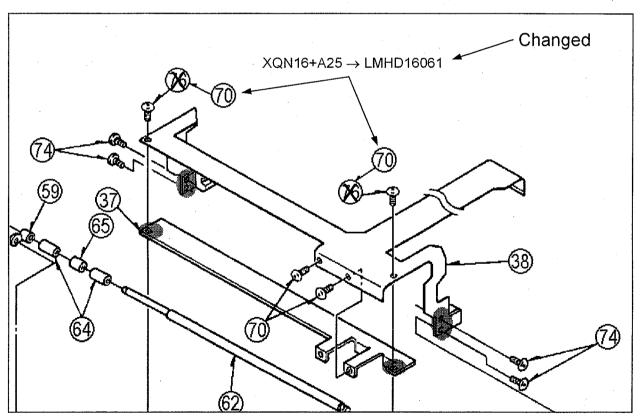


Fig. 2

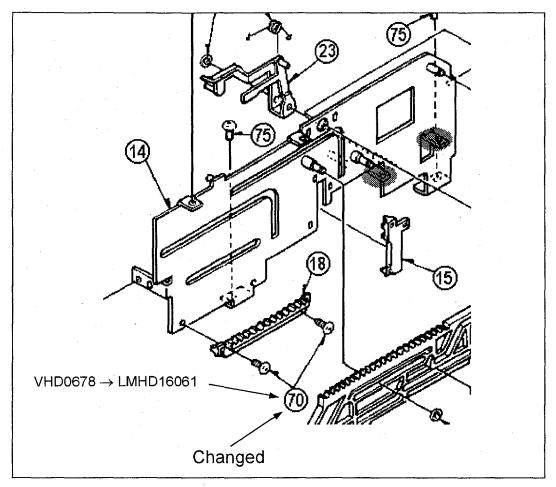


Fig. 3

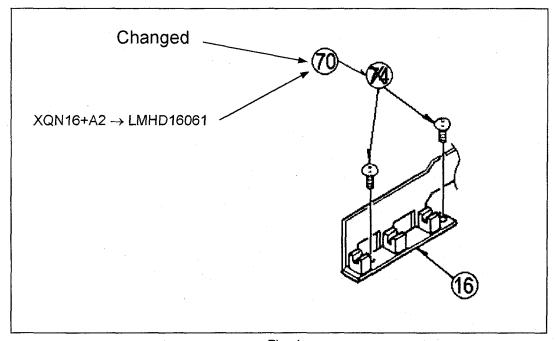


Fig. 4

## Supplement to the Service Manual

**Broadcast Product** 

### Subject: Improvement of Audio Mute during Playback Mode

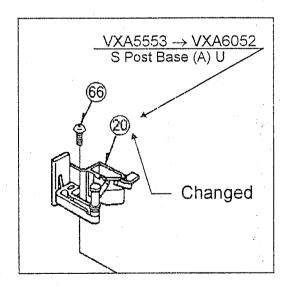
Please use this supplement tog	ether with the Service Manu	ıal as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN147726+1	行子学27 101	VSD9606M502A	G7TRB0001
AJ-D700E/EN V17728		VSD9606M501A	G7TKA0001
AJ-D650E V18445 +	- VASTIG 74	VSD9612MJ01A	G7TRA0001
AJ-D640E	¥ 74	VSD9612MJ01A	G7TRA0001

#### Mechanical Chassis Assembly (2)

Symptom: Audio mute may occur during Playback mode.

Remedy: To improve the reliability and durability of the S5 Roller Post, the S Post Base Unit is changed from VXA5553 to VXA6052 as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
20	VXA5553	VXA6052	S POST BASE A U	1	



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# Technical Bullet **Broadcast Product**

# Supplement to the Service Manual

# Subject: Introduction of New V OUT P.C. Board

Subject : Introduction	on of New V OUT	at as follows:	Effective from
Please use this supplement to Model No.	gether with the Service Manu Bulletin No. 75	Order No. VSD9612MJ01A/B VSD9612MJ01A/B	H7TRA0001 H7TRA0001
AJ-D650E AJ-D640E	75 Board : V OU		new F4 V OUT P.C. Board

To improve the manufacturing productivity and introduce the new function, a new F4 V OUT P.C. Board (VEP83352B-1 / VJB83352-2) is introduced. This Technical Bulletin contains the following items.

- 1). Electrical Adjustment Procedure
- 2). Parts List
- 3). Schematic Diagram
- 4). P.C. Board Layout

According to this change, the following function is introduced.

1). V Blanking Area Record function is introduced.

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### 10. Video Out P.C.Board (F4)

### 10-1. DA Reference Volt. Adjustment

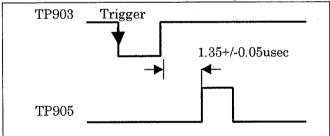
BOARD	V_OUT (F4)		
SPEC.	3.95V ± 0.05V		
TEST	TP300 (H-3)		
ADJUST	UST VR300 (G-1)		
INPUT	EXT REF IN / Composite		
MODE	DDE E-E		
TAPE			
M.EQ	Oscilloscope		

1. Adjust VR300 so that the DV voltage is 3.95V  $\pm$  0.05V

### 10-2. Sampling Position Adjustment

BOARD	V_OUT (F4)
<b>SPEC.</b> 1.35 ± 0.051 usec	
TEST	TP903 (D-1), TP905 (C-2)
ADJUST	VR900 (C-1)
INPUT	EXT REF IN / Composite
MODE	E-E
TAPE	
M.EQ	Oscilloscope

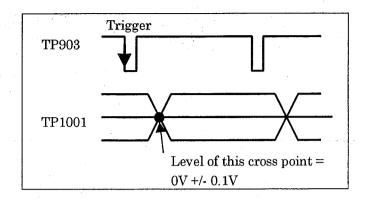
 Adjust VR900 so that the timing of the pulses at TP905 and TP903 is as shown in figure below.



### 10-3. PLL Center Adjustment

BOARD	V_OUT (F4)
SPEC.	0V ± 0.1V
TEST	TP903 (D-1), TP1001 (D-1)
ADJUST	VC1000 (D-1)
INPUT	EXT REF IN / Composite
MODE	E-E
TAPE	
M.EQ	Oscilloscope

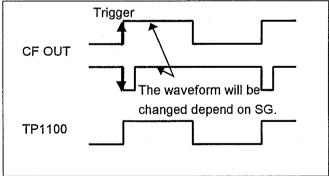
1. Adjust VC1000 so that the voltage is  $0V \pm 0.1V$ .



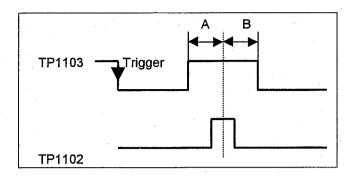
### 10-4. CF Detection (1) Adjustment

BOARD	V_OUT (F4)
SPEC.	See Figure
TEST	TP1100 (C-2), CF Out of Signal SG
	TP1102 (C-2), TP1103 (C-2)
ADJUST	VR901 (C-1)
INPUT	EXT REF IN / Composite
MODE	EE
TAPE	
M.EQ	Oscilloscope

- Connect the oscilloscope CH1 to the CF output of Composite signal generator and CH2 to TP1100.
- Adjust VR901 so that the CF pulses of the signal generator output and TP1100 are just agreed.



- 3. Connect the oscilloscope CH1 to TP1102 and CH2 toTP1103.
- 4. Expand (delay) the portion A ( rising edge of TP1103).
- Slowly and slithery rotate VR901 so that the rising edge of TP1103 is positioned at the center of the stable waveform at TP1102.

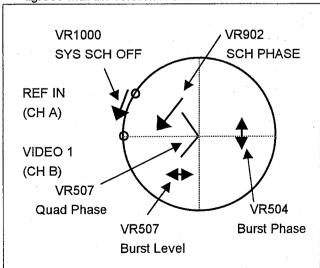


#### 10-5. Vector Per-Adjustment

Before starting the composite video output adjustment, perform the following vector peradjustment.

BOARD	V_OUT (F4)
SPEC.	Within ± 1 IRE
TEST	VIDEO-1
ADJUST	VR1000(B-1), VR902 (J-2), VR507 (I-1)
	VR503 (H-1), VR504 (H-1)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (Color Bar)
M.EQ	SCH Meter

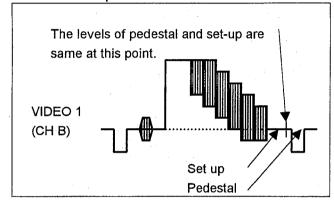
- Adjusts VR1000 while changing the channels A and B of the SCH meter alternately so that the SCH is 0 degree almost.
- Adjusts VR902, VR507, VR503 and VR504 while changing the channel A and B of the SCH meter alternately so that the vector of the Video 1 burst agrees with the reference burst almost.



### 10-6. Composite Set Up Adjustment

BOARD	V_OUT (F4)
SPEC.	Set-up Level = Pedestal Level +/- 10mV
TEST	VIDEO-1
ADJUST	VR802 (J-1)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (Color Bar)
M.EQ	WFM Monitor

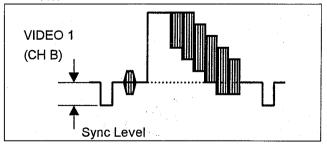
1. Adjusts VR802 so that the set up level is the same level as the pedestal level.



### 10-7. Sync Level Adjustment

BOARD	V_OUT (F4)
SPEC.	0.3V ± 1%
TEST	VIDEO-1
ADJUST	VR400 (G-1)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (Color Bar)
M.EQ	WFM Monitor

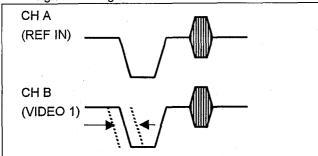
1. Adjust VR400 so that the Sync Level is 0.3V  $\pm$  1%.



10-8. H Sync Phase Adjustment

	7
BOARD	V_OUT (F4)
SPEC.	See Figure
TEST	VIDEO-1 / REF
ADJUST	VR1100 (B-1)
INPUT	EXT REF IN
MODE	PLAY
TAPE	VFM3680KM (Color Bar)
M.EQ	WFM Monitor

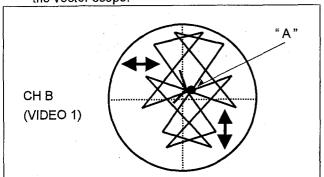
 Adjusts VR1100 while changing the channels A and B of the waveform monitor alternately so that the timing of the Video 1 H and Reference H signals are agreed.



### 10-9. Carrier Balance Adjustment

BOARD	V_OUT (F4)
SPEC.	Cross Point "A" at the Center
TEST	VIDEO-1 / REF IN
ADJUST	VR505 (I-1), VR506 (I-1)
INPUT	EXT REF IN
MODE	PLAY
TAPE	VFM3680KM (Color Bar)
M.EQ	Vector Scope

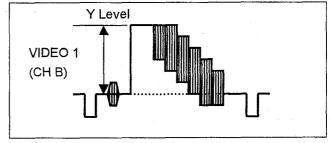
- 1. Set the vector scope in the without set up mode.
- Adjust VR505 (PB BAL) and VR506 (PR BAL) so that the cross point A is positioned at the center of the vector scope.



### 10-10. Composite Y Level Adjustment

		_
BOARD	V_OUT (F4)	
SPEC.	100 IRE ± 1%	
TEST	VIDEO-1	
ADJUST	VR800 (I-1)	
INPUT		
MODE	PLAY	
TAPE	VFM3680KM (Color Bar)	
M.EQ	WFM Monitor	

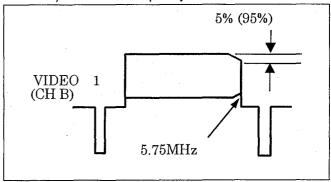
1. Adjust VR800 so that the Y Level is 100 IRE  $\pm$  1%.



10-11. Composite Y Frequency Response Adjustment

V_OUT (F4)
1MHz : 5.5MHz = 100 : 95%
Y out
VR801 (G-1)
PLAY
VFM3680KM (H Sweep)
WFM Monitor

- 1. Adjust VR801 so that the frequency response becomes flat.
  - a) The level of 5.5MHz portion is 95%.
  - b) The middle frequency is 100%.



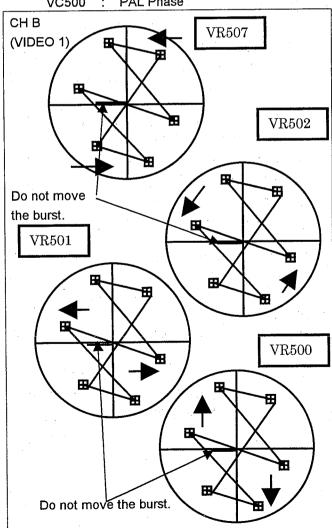
10-12. Vector Adjustment

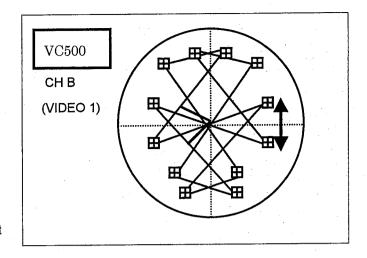
BOARD	V_OUT (F4)
SPEC.	All Vectors are in the Inner Boxes
TEST	VIDEO-1
ADJUST	VR507 (I-1), VR502 (H-1),
	VR501 (H-1), VR500 (H-1), VC500(I-3)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (75% Color Bar)
M.EQ	Vector Scope

- 1. Set the burst position on the Vector Scope at correct position.
- 2. Adjust the following VR's so that the color bar's each vector points are in the square mark on the vector scope.

VR507 : Quad Phase VR502 : Hue Phase Encode PB Level VR501 Encode PR Level VR500

PAL Phase VC500

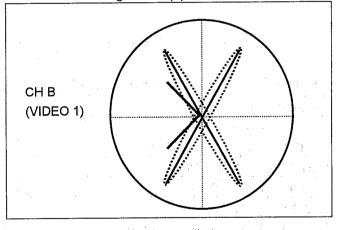




10-13. Composite PB/PR Timing Adjustment

BOARD	V_OUT (F4)
SPEC.	0 ± 10nS
TEST	VIDEO-1
ADJUST	VR307 (F-1)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (Color Bar)
M.EQ	Vector Scope

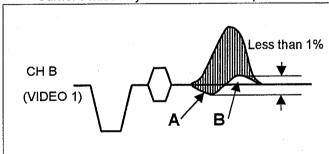
1. Adjust VR307 so that the signal on the vector scope becomes 2 straight lines (X).



10-14. Composite YC Timing Adjustment

	ajasinent
BOARD	V_OUT (F4)
SPEC.	0 ± 10nS (Less than 1%)
TEST	VIDEO-1
ADJUST	VR803 (I-1)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (12.5T Pulse)
M.EQ	Monitor

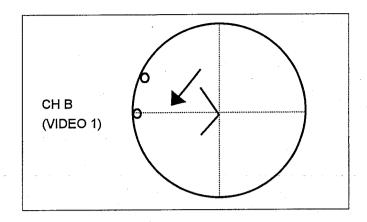
- 1. Do not use extension board for this adjustment.
- 2. Adjust VR803 so that the levels (A) and (B) on the 12.5T pulse are equal or less than 1%.
- When performing this adjustment (step 2) the level may be changed too. Therefore, adjust the Chroma Level Control at the front panel.
- 4. Set the Chroma Level Control as the previous position.
- 5. After completion of this adjustment, "10-15 Sub-Carrier Phase Adjustment" should be performed.



### 10-15. Sub-Carrier Phase Adjustment

BOARD	V_OUT (F4)
SPEC.	0 ± 1°
TEST	VIDEO-1 / REF IN
ADJUST	VR1000 (B-1)
INPUT	EXT REF IN
MODE	PLAY
TAPE	VFM3680KM (Color Bar)
M.EQ	SCH Meter

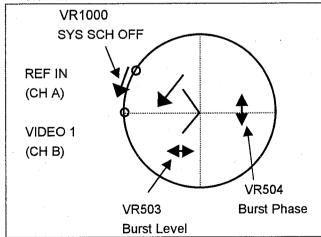
 Adjust VR1000 so that the SCH of VIDEO OUT is same as EXT-REF-IN.



### 10-16. Burst Adjustment

BOARD	V_OUT (F4)
SPEC.	Within ± 1 IRE
TEST	VIDEO-1
ADJUST	VR1000 (B-2),
	VR503 (H-1), VR504 (H-1)
INPUT	REF IN
MODE	PLAY
TAPE	VFM3680KM (Color Bar)
M.EQ	SCH Meter

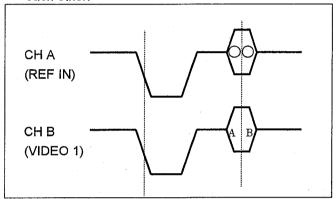
- Adjusts VR1000 while changing the channels A and B of the SCH meter alternately so that the SCH is 0 degree.
- Adjusts VR503 and VR504 while changing the channel A and B of the SCH meter alternately so that the vector of the Video 1 burst agrees with the reference burst.



10-17. Burst Position Adjustment

V_OUT (F4)
A = B +/-5%
VIDEO-1 / REF IN
VR1102 (B-1)
EXT REF IN
PLAY
VFM3680KM (Color Bar)
WFM Monitor

 Adjusts VR1102 while changing the channels A and B of the vector scope alternately so that the center of the burst of the reference and video 1 are agreed each other.



10-18. Vector Adjustment

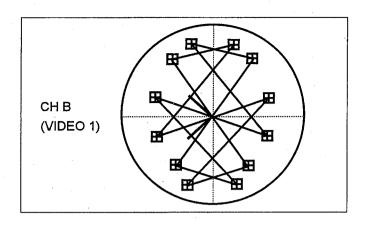
BOARD	V_OUT (F4)
SPEC.	All Vectors are in the Inner Boxes
TEST	VIDEO-1
ADJUST	VR502 (H-1), VR500 (H-1), VR501 (H-1)
	VR507 (I-1), VC500 (I-3)
INPUT	REF IN
MODE	PLAY
TAPE	VFM3680KM
M.EQ	Vector Scope

- 1. Set the burst position on the Vector Scope at correct position.
- Adjust the following VR's so that the color bar's each vector points are in the square mark on the vector scope.

VR507 : Quad Phase VR502 : Hue Phase

VR501 : Encode PB Level VR500 : Encode PR Level

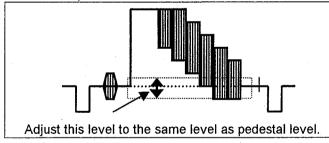
VC500 : PAL Phase



10-19. V Blank Pedestal Level

	tajastinerit
BOARD	V_OUT (F4)
SPEC.	0 ± 10nS
TEST	VIDEO-1
ADJUST	VR310 (F-1)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (Color Bar)
M.EQ	WFM Monitor

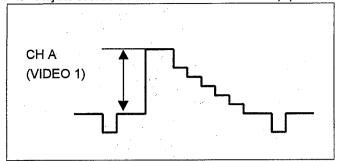
1. Adjust VR310 so that the signal level is same level as the pedestal level.



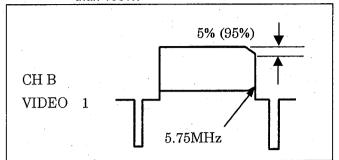
10-20. Component Y Level Adjustment

BOARD	V_OUT (F4)
SPEC.	700mVp-p ± 1%
TEST	COMPONENT Y OUT
ADJUST	VR301 (F-1)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (Color Bar)
M.EQ	WFM Monitor

1. Adjust VR301 so that the Y level is  $700 \text{mVp-p} \pm 1\%$ .



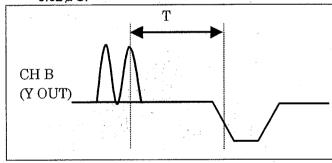
- a) The level at 5.5MHz portion is 95%.
- b) The middle frequency should not be more than 100%.



10-21. Video Phase Adjustment

10 2 11 0	1400 i 11400 / tajaotiliolit
BOARD	V_OUT
SPEC.	$T = 1.26 \pm 0.02 \mu S$
TEST	Y_OUT
ADJUST	VR1050 (A-1)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (Aria Maker)
M.EQ	WFM Monitor

1. Adjust VR1050 so that the timing T is 1.26  $\mu$ S ± 0.02  $\mu$  S.



10-22. Component Y Frequency Response Adjustment

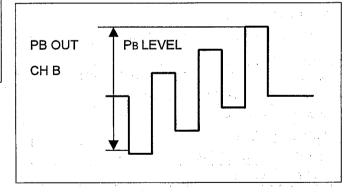
BOARD	V_OUT (F4)
SPEC.	1MHz : 5.5MHz = 100% : 95%
TEST	Yout
ADJUST	VR304 (F-1)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (H Sweep)
M.EQ	WFM Monitor

1. Adjust VR304 so that the frequency response becomes flat.

10-23. Component PB Level
Adjustment

	ajae anieni
Board	V_OUT (F4)
SPEC.	700mV ± 1%
TEST	COMPONENT PB_OUT
ADJUST	VR306 (E-1)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (100% Color Bar)
M.EQ	WFM Monitor

 Adjust VR306 so that the PB Level of component out is 700mV ± 1%.

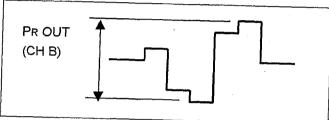


### 10-24. Component PR Level

Adjustment

V_OUT (F4)
700mV ± 1%
COMPONENT PR_OUT
VR305 (E-1)
PLAY
VFM3680KM (100% Color Bar)
WFM Monitor

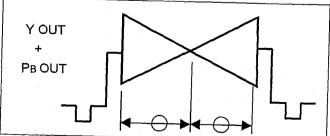
 Adjust VR305 so that the PR Level of component out is 700mV ± 1%.



10-25. Component Y/PB Timing
Adjustment

BOARD	V_OUT (F4)
SPEC.	0 ± 10nS
TEST	COMPONENT Y_OUT, PB_OUT
ADJUST	VR303 (E-1)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (Bowtie)
M.EQ	WFM Monitor

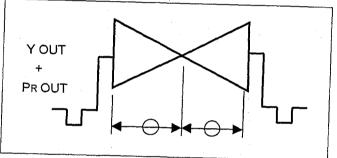
- Set the WFM monitor in the YC timing measuring mode (CH B1 + CH B2).
- Adjust VR303 so that the cross point of the envelope is at the center.



10-26. Component Y/PR Timing Adjustment

_	tajaotii oji t
BOARD	V_OUT (F4)
SPEC.	0 ± 10nS
TEST	Y_OUT, PR_OUT
ADJUST	VR305 (E-1)
INPUT	
MODE	PLAY
TAPE	VFM3680KM (Bowtie)
M.EQ	WFM Monitor

- Set the WFM monitor in the YC timing measuring mode (CH B1 + CH B2).
- Adjust VR305 so that the cross point of the envelope is at the center.



Ref. No.	Part No.	Part Name & Description	Pos	Remarks	Ref. No.	Part No.	Part Name & Desc	rintio	Pc	Remarks
NOTHING	1020 370.	T GE O TIGMO W PODOLI POLOT		KOMOL KO	C509	**************************************	C. CAPACITOR CH 25V	0.10	-	Nomar Re-
	VEP83352B	F4 V-OUT P. C. BOARD	1	(RTL)	C510, 11		E. CAPACITOR CH 16V	100	2	
					C512	ECUX1H103KBV	C. CAPACITOR CH 50V	0. 01U	1	
					C513-15	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U	3	
C100		E. CAPACITOR CH 16V 47U	_		C516		C. CAPACITOR CH 50V	22P	+	
C101		***************************************	1		C517		C. CAPACITOR CH 25V	0.10	+	
C102	<del></del>	E. CAPACITOR CH 16V 47U	1		C518		C. CAPACITOR CH 50V	10P	+	
C103		C. CAPACITOR CH 25V 0.1U	_1		C519-21		C. CAPACITOR CH 25V	0. 10	+	
C150-60		C. CAPACITOR CH 25V 0.1U			C522		C, CAPACITOR CH 50V	22P	1 1	
C200-03		C. CAPACITOR CH 25V 0.1U	4		C523-25		C. CAPACITOR CH 25V	0. 10	-	
0250, 51		C. CAPACITOR CH 25V 0.1U			C526		C. CAPACITOR CH 50V	270P	-	
C252			1		C527		C. CAPACITOR CH 50V	150P	1	
C253-57		C. CAPACITOR CH 25V 0.1U	5		C528		C. CAPACITOR CH 25V	0. 10	1	
C258		C. CAPACITOR CH 50V 150P	1		C529		C. CAPACITOR CH 50V	82P	1	<del> </del>
C261		C. CAPACITOR CH 25V 0.1U	1		0530-33		C, CAPACITOR CH 25V	0. 10	4	<u> </u>
C263		C. CAPACITOR CH 25V 0.1U	-		0534		C. CAPACITOR CH 50V	82P	1	ļ
C265	<del></del>	C. CAPACITOR CH 25V 0.1U	1		C535-38		C. CAPACITOR CH 25V	0.10	4	
C267		C. CAPACITOR CH 25V 0.1U	1		C539		C. CAPACITOR CH 50V	22P		
C300-02		C. CAPACITOR CH 25V 0.1U	3		C540, 41		C. CAPACITOR CH 25V	0. 1U 22P	1	
0303		E. CAPACITOR CH 16V 10U	-	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	C542		C. CAPACITOR CH 50V		-	
C304 C305		C. CAPACITOR CH 25V 0.1U E. CAPACITOR CH6.3V 100U	1		C543 C544		C. CAPACITOR CH 25V C. CAPACITOR CH 50V	0. 1U 12P	+	
		C. CAPACITOR CH 25V 0.1U	2		C545		C. CAPACITOR CH 50V	27P		
C308, 07		E. CAPACITOR CH 16V 10U	1		C546		C. CAPACITOR CH 50V	220P	<u>'</u>	
C308 C309, 10		C. CAPACITOR CH 25V 0.1U	2		C548		C. CAPACITOR CH 50V	27P	1	<del> </del>
0311			1	· · · · · · · · · · · · · · · · · · ·	C550		C. CAPACITOR CH 50V	100P	1	
0312			1		C551		C. CAPACITOR CH 16V		1	<u> </u>
C312			1		C552		E. CAPACITOR CH 18V	100	1	
<b></b>			3		C553		C. CAPACITOR CH 25V	0. 10	1—	
0317			1		C554		C. CAPACITOR CH 16V		1	
C318-23		C. CAPACITOR CH 25V 0.1U	6		C555		E. CAPACITOR CH 16V	100	<u> </u>	
C324			1		C558		C. CAPACITOR CH 25V	0. 10	1	
		C. CAPACITOR CH 25V 0.1U	2		C557		E. CAPACITOR CH 16V	100	1	
C328			1		C558		C. CAPACITOR CH 16V		-	
			2				C. CAPACITOR CH 25V	0.10	_	
C332		C. CAPACITOR CH 25V 0.1U	1				C. CAPACITOR CH 50V	. 22P	2	
C333		C. CAPACITOR CH 50V 56P	1		ļ		C. CAPACITOR CH 25V	0.10	2	
	<del> </del>		2		C565		C. CAPACITOR CH 50V	10P	1	
		C. CAPACITOR CH 50V 39P	2		C566		C. CAPACITOR CH 50V	47P	1	
C339			1		C567		C. CAPACITOR CH 50V	33P	1	
C340		C. CAPACITOR CH 50V 150P	1				C. CAPACITOR CH 25V	0. 1U	2	
C343	<del></del>	C. CAPACITOR CH 50V 68P	1		C570		E. CAPACITOR CH6. 3V	47U	1	
C344		C. CAPACITOR CH 50V 150P	1	•	C571		C. CAPACITOR CH 25V	0. 1U	1	
C346		C. CAPACITOR CH 50V 2P	1		C572	ECEVOJV470Q	E. CAPACITOR CH6. 3V	470	1	
C347		C. CAPACITOR CH 50V 120P	1		C573-76	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U	4	
C348, 49		E. CAPACITOR CH 16V 10U	2		C600-06		C. CAPACITOR CH 25V	0. 1U	7	
C350	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		C700-03	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 10	4	
C351	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C705	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U	1	
C352-66	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	15		C800, 01	ECUX1H470JCV	C. CAPACITOR CH 50V	47P	2	·
C370, 71	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C802	ECEV1CV100Q	E. CAPACITOR CH 16V	100	1	
C372	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C803, 04	ECUX1E104ZFV	C. CAPACITOR CH 25V	O. 1U	2	
C373	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C805	ECUX1H020CCV	C. CAPACITOR CH 50V	2P	1	
0374	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1		C806	ECUX1H121JCV	C. CAPACITOR CH 50V	120P	1	
0375	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C807	ECEV1CV1000	E. CAPACITOR CH 16V	100	1	
C376	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C808, 09	ECUX1E104ZFV	C. CAPACITOR CH 25V	O. 1U	2	
C377	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	1		C810	ECUX1H103KBV	C. CAPACITOR CH 50V	0. 01U	1	
C378	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C811-14	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U	4	
C400	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C815	ECUX1H470JCV	C. CAPACITOR CH 50V	47P	1	
C401	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C816	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U	1	
C402-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		C818	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U	1	
C405	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1				C. CAPACITOR CH 50V	22P	1	
C406	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C821	ECUX1H470JCV	C. CAPACITOR CH 50V	47P	1	
C407	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1		C822	ECUX1H220JCV	C. CAPACITOR CH 50V	22P	1	
C409, 10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C824	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U	1	
0412, 13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C826	ECUX1H220JCV	C. CAPACITOR CH 50V	22P	1	
C415	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C827	ECUX1H470JCV	C. CAPACITOR CH 50V	47P	1	
C425	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C828	ECUX1H020CCV	C. CAPACITOR CH 50V	2P	1	
C500	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C829-32	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	4	
C501	ECEV1CV1000		1		C833	ECEV1CV100Q	E. CAPACITOR CH 16V	100	1	
C502	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1		C834	ECUX1H150JCV	C. CAPACITOR CH 50V	15P	1	
C503	ECUX1H821JV	C. CAPACITOR CH 50V 820P	1		C850	ECUX1H470JCV	C. CAPACITOR CH 50V	47P	1	
C504			1		C851	ECUX1H22OJCV	C. CAPACITOR CH 50V	22P	1	
C505	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C852~55	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. †U	4	
C506, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C856	ECUX1H390JCV	C. CAPACITOR CH 50V	39P	1	
C508	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		C857	ECUX1H070DCV	C. CAPACITOR CH 50V	7P	1	
			J							
			$\Box$							
			_						_	

Ref. No.	Part No.	Part Name & Description	P.,	Remarks	Ref. No.	Part No.	Part Name & Description	rPc	s Remarks
			-				E. CAPACITOR CH 16V 10	_	<del></del>
C900		E. CAPACITOR CH 16V 47U		L				-	
C901		C. CAPACITOR CH 25V 0.1U						<del>-</del>	
C902		C. CAPACITOR CH 50V 0.01U	1				C. CAPACITOR CH 25V 0. 1		
C903	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1				C. CAPACITOR CH 50V 15	-	
C904, 05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C1115-20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1	1 (	8
C906	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C1121	ECEV1CV100Q	E. CAPACITOR CH 16V 10	i  ·	l†
C907	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C1122	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1	ı T	
C908		C. CAPACITOR CH 50V 18P	1		C1123	ECUX1H101JCV	C. CAPACITOR CH 50V 100	, T	
C909		C. CAPACITOR CH 50V 68P	H				C. CAPACITOR CH 25V 0.1	-	
			1 2				C. CAPACITOR CH 50V 470		
		C. CAPACITOR CH 25V 0.1U	+						
C912		E. CAPACITOR CH 50V 1U	-				C. CAPACITOR CH 25V 0. 1		
C913	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1				C. CAPACITOR CH 25V 0.1		
C914-16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		01151	ECEV1EV100Q	E. CAPACITOR CH 25V 10	上	
C917	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		01152	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1	յ  ։	
C918	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1		C1153	ECEV1CV100Q	E. CAPACITOR CH 16V 10	ıŢ.	
C919		E. CAPACITOR CH 16V 47U	1			FCHX1E104ZEV	C. CAPACITOR CH 25V 0.1	<u>,                                    </u>	
C920		C. CAPACITOR CH 25V 0.1U	-				E. CAPACITOR CH 16V 10	-	
			-				C. CAPACITOR CH 25V 0.1		
C921		E. CAPACITOR CH 16V 47U	┼─						
C922		C. CAPACITOR CH 50V 100P	1				E. CAPACITOR CH 25V 10		
C923	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1				E. CAPACITOR CH 16V 10		
C924	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C1161	ECEV1EV100Q	E. CAPACITOR CH 25V 10	1	
C925	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C1162	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1	J .	
C926		E. CAPACITOR CH 16V 47U	1				E. CAPACITOR CH 25V 10	,	
C927		C. CAPACITOR CH 50V 39P	+	<u> </u>			C. CAPACITOR CH 25V 0.1		
				·			E. CAPACITOR CH 16V 10	-	
C928		C. CAPACITOR CH 25V 0.1U						-+-	
C929		E. CAPACITOR CH 16V 47U	-				C. CAPACITOR CH 25V 0. 1	-	
C930		C, CAPACITOR CH 25V 0.1U	-				E. CAPACITOR CH 16V 10	+-	
C931		E. CAPACITOR CH 16V 47U	1				E. CAPACITOR CH 25V 10	-	
C932	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C1170-75	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1	J (	3
C933		C. CAPACITOR CH 50V 0.01U	1		C1176	ECEV1CV1000	E. CAPACITOR CH 16V 10	ī ·	
		C. CAPACITOR CH 25V 0.1U			C1177	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1	,	
C936		E. CAPACITOR CH 16V 47U	_				E. CAPACITOR CH 16V 10	-	
			+				C. CAPACITOR CH 25V 0. 1		
C937		C. CAPACITOR CH 50V 0.01U	<u> </u>					-	
C938		C. CAPACITOR CH 25V 0.1U	1				E. CAPACITOR CH 16V 10		
C939	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1		C1181	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1	1	
C940	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1		C1182	ECEV1CV100Q	E. CAPACITOR CH 16V 10	بال	
C941, 42	ECUX1E104ZFV	C. CAPACITOR CH 25V 0, 1U	2		C1183	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1	<u>1</u>	
C945	ECEV1HN0100	E. CAPACITOR CH 50V 1U	1		C1184	ECEV1CV100Q	E. CAPACITOR CH 16V 10	ı ·	
C946		C. CAPACITOR CH 25V 0.1U	1				C. CAPACITOR CH 25V 0. 1	ı i	
C947		E. CAPACITOR CH 16V 47U	-				E. CAPACITOR CH 16V 10		· · · · · · · · · · · · · · · · · · ·
		C. CAPACITOR CH 25V 0.1U	2				C. CAPACITOR CH 25V 0. 1		· · · · · · · · · · · · · · · · · · ·
C1000		E. CAPACITOR CH 16V 47U					E. CAPACITOR CH 16V 10	-+	<del></del>
C1001	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C1204-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1	1 1	
C1002	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1		C1250-53	ECUX1C104KBV	C. CAPACITOR CH 18V 0.1	J) i	1
C1003	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1		C1254-57	ECEV1EV100Q	E. CAPACITOR CH 25V 10	ı	
C1004		C. CAPACITOR CH 25V 0.1U	1		C1258-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0. 1	٦,	
C1005		E. CAPACITOR CH 16V 10U	-				E. CAPACITOR CH 16V 10	-	1
			-				C. CAPACITOR CH 16V 0.1		
		C. CAPACITOR CH 25V 0. 1U			C1200-08	ECUX ICTU4NDV	C. CAPACITOR CH 18V U. I	Ή.	
C1013		E. CAPACITOR CH 16V 10U	11	I				+	<u></u>
C1014		C. CAPACITOR CH 50V 0.01U	1				DIODE	1	<u> </u>
C1015-18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4				DIODE .	1	
C1019		E. CAPACITOR CH 25V 3.3U	1		D501. 02	MA335	DIODE	] :	!
C1020	EQUX1E104ZFV	C. CAPACITOR CH 25V 0.1U					DIODE	1	
C1021		E. CAPACITOR CH 16V 47U	-				DIODE	1	
C1021		C. CAPACITOR CH 25V 0.1U			<del></del>		DIODE	1	
			+				DIODE	+	
C1024			ı						- <del></del>
		C. CAPACITOR CH 25V 0.1U	-				DIODE	1	
		C. CAPACITOR CH 50V 47P					DIODE	1	
C1030	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1		D1100	MA142K	DIODE		
C1031	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1						
C1035		C. CAPACITOR CH 50V 0.01U	-	F	FL301	VLF1294	FILTER	1	
C1050		C. CAPACITOR CH 25V 0.1U	-				FILTER		<del> </del>
			-				FILTER	+	
C1052		C. CAPACITOR CH 50V 0.01U	-					_	<del> </del>
		C. CAPACITOR CH 25V 0.1U			rL1150-53	VLF1016A223	FILTER	-	1
C1057		C. CAPACITOR CH 50V 0.01U						4	
C1 058	ECEV1HN0100	E. CAPACITOR CH 50V 1U	1	<u> </u>	IC150, 51	SN74S1051NS	IC	12	
C1 059	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	. 1	IC152	74ALS245ASJ	IC	1	
C1080		C. CAPACITOR CH 50V 1000P	-		IC153, 54	74ALS541SJ	IC .	1.2	
C1062		C. CAPACITOR CH 25V 0.1U				VS12391B	IC	1	
							10	+	
U1100, 01		C. CAPACITOR CH 25V 0.1U						-	
		C. CAPACITOR CH 25V 0.1U	-				IC.	1	
C1103	IECEV1CV1000	E. CAPACITOR CH 16V 10U	$\Box$ 1		IC159	UPD71055GB	IC	1	
C1103	,				10160	MC74HC574AF	IC	1	
		C. CAPACITOR CH 25V 0.1U	1 1						
C1104 C1105	ECUX1E104ZFV		_		IC161	SN74S1051NS	IC	1	
C1104 C1105 C1106	ECUX1E104ZFV ECEV1CV1000	E. CAPACITOR CH 16V 10U	1				IC IC	1	
C1104 C1105 C1106	ECUX1E104ZFV ECEV1CV1000		1			SN74S1051NS MC74HC74AF	<del></del>	1	
C1104 C1105 C1106	ECUX1E104ZFV ECEV1CV1000	E. CAPACITOR CH 16V 10U	1				<del></del>	1	

Ref. No.	Part No.			D1 II	n-c M-	Danie Ma	Dank Mana & Danasiantia	<b>.</b>	J D
		Part Name & Description	re	Remarks	Ref. No.		Part Name & Description		s Remarks
			1 4			ļ	COIL 100UH	+	
10202	MC74HC541AF	10	1		L500-02	VLQ0163J220			<del></del>
1C2O3	TC7SH08FU	1C	ᆜ		L503	VL00163J270		+	
10250	XC62AP3002P	IC	1		L504		COIL 82UH	-	
10251	UPD65840G024	<del></del>	1	<del>  </del>	L505, 06	VLQ0163J470	COIL 47UH	+-	
10254	74F244SJ	10	_1		L507	VLQ0163J150	COIL 15UH	1	
I C256	74F244SJ	10	1		L508	VLQ0163J5R6	COIL 5. BUH	1	
10300	NJM082BM	10	1		L509	VLQ0163J470	COIL 47UH	1	
10301	NJM084M	10	1		L510	VLQ0163J6R8	COIL 6. BUH	1	
10303	MC74HC244AF	IC	1		L800	VLQ0163J150	COIL 15UH	1	
	MB40778PF	10	3			VLQ0163J220	COIL 22UH	2	
	EL4089CS	IC	3		L850		COIL 18UH	1	
	MC14053BF	IC	2		L900	VLQ0163J101	COIL 100UH	╁	
10500	NJM082BM	10	1		L901	VLQ0163J221	COIL 220UH	+;	
		10	-					├-;	
10502	MC74HC4053F		1		L902	VLQ0163J390	COIL 39UH	⊢.	
1C503	M51272FP	IC	1			VLQ0163J470	COIL 47UH	6	
10800	74ALS541SJ	IC	1		L1000	<del></del>	COIL 47UH	1	
	MC10H124M	IC	3	I	L1001	VLQ0163J221	COIL 220UH	1	
10700	VS12500C	10	1		L1002, 03	VLQ0163J220	COIL 22UH	2	
10702	74F244SJ	10	1		L1004	VLQ0163J470	COIL 47UH	1	1.5
10800	EL4089CS	IC	1		L1100, 01	VL00163J220	COIL 22UH	2	
I C801	NJM082BM	IC	1						
1C802	NJM2534V	10	1		P1, P2	VJP3454B096	CONNECTOR (MALE)	2	
10805	AD828AR	10	1		P3	VJP1233T	CONNECTOR (MALE) 6P	1	
10850	NJM2534V	10	1					r	
10900	AN91A12S	10	1		Q300-05	2SD601A-R	TRANSISTOR	6	
10902	NE521D	10	1	<del> </del>	Q306-14	2SB709A-R	TRANSISTOR	9	
	<del></del>		<u> </u>				······································	-	<del></del>
10904	MC74HC04AF	10	1		Q315-17	2SD601A-R	TRANSISTOR	3	
10908, 09		10	2		Q318, 19	2SB709A-R	TRANSISTOR	2	
IC910	MC74HC125AF	IC .	1		Q400	2SC2404-D	TRANSISTOR	1	
IC913	NJM082BM	IC ·	1		Q401-03	2SB709A-R	TRANSISTOR	3	
IC915	SN74LS221NS	IC	1		Q404, 05	2SD601A~R	TRANSISTOR	2	
IC916	NJM082BM	10	1		Q406, 07	2SB709A-R	TRANSISTOR	2	
I C923-25	TC7SHOOFU	10	3		Q408-10	2SD601A-R	TRANSISTOR	3	
IC1000	NE521D	IC	1		Q500	2SB709A-R	TRANSISTOR	1	
I C1 001	DAC106S	10	1		Q501, 02	2SC2295-C	TRANSISTOR	2	
IC1002	MC14053BF	10	1		0503, 04	2SB709A-R	TRANSISTOR	2	
IC1003	NJM082BM	IC	1		Q505	2SC2295-C	TRANSISTOR	1	
IC1004	TC7SH08FU	10	1		9506, 07	2SB709A-R	TRANSISTOR	2	
101004	NJM084M	10	1		Q508	2SD601A-R	TRANSISTOR	1	
		10	1					+	
101015	TC7SH00FU		-	<del>  </del> }	Q509	XN6501	TRANSISTOR-RESISTOR	Ŀ.	ļ
101051	NJM082BM	10	1		Q510	2SD601A-R	TRANSISTOR	1	
101053		1C .	1	<u> </u>		2SC2295-C	TRANSISTOR	2	
		IC	2		Q513	2SD601A-R	TRANSISTOR	1	
I C1057	SN74AS74ANS	IC	1		Q514	2SB709A-R	TRANSISTOR	1	
IC1100	NJM084M	IC	1	! [	0800, 01	2SA1532-B	TRANSISTOR	2	
101102	DAC1 OGS	10	_1		0802, 03	2SD601A-R	TRANSISTOR	2	
101103	SN74LS221NS	10	1		0804	2SB709A-R	TRANSISTOR	1	
101108	UPD65650J203	10	1		Q806, 07	2SB709A-R	TRANSISTOR	2	
	BMC74HCO4AF	IC	2		Q850	2SA1532-B	TRANSISTOR	1	
101113		10	1		Q851	2SB709A~R	TRANSISTOR	1	
	-	10	1				TRANSISTOR	1	
	6 SN74LS221NS		2	<del></del>	Q1001, 02		TRANSISTOR	2	
1011150		10	1	<del>  </del>	41001, 02	Z-0000-K	INCIDION		
101151		10	+		ODDOO	UN2212	TDANGISTAD-DEGISTAD	1	
				<b> </b>			TRANSISTOR-RESISTOR	_	
101152		10	1			MUN2213	TRANSISTOR-RESISTOR	1	
101153	NJM78L09UA	10	1	<u> </u>		MUN2112	TRANSISTOR-RESISTOR	1	
101154	AN78N05	10	1	<b> </b>		MUN2213	TRANSISTOR-RESISTOR	1	
101155	NJM79L09UA	10	1	·	QR301	MUN2112	TRANSISTOR-RESISTOR	1	
IC1156	NJM78L09UA	IC	_1				4.4		
IC1157	NJM78L05UA	IC	1		R151, 52	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
IC1158	NJM79L05UA	IC .	1		R153, 54	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
IC1159	+	10	1				M. RESISTOR CH 1/16W 10K		
IC1160	AN78N09	10	1				M. RESISTOR CH 1/16W 1K	4	
IC1161	NJM78L05UA	10	1					11	
101162	NJM79L05UA	10	1				M. RESISTOR CH 1/16W 1K	2	<del>                                     </del>
101163	AN79N09	10	1				M. RESISTOR CH 1/16W 10K	3	<del>                                     </del>
				I					
	6 NJM78L09UA	IC	2				M. RESISTOR CH 1/16W 0	1	
101167, 6	NJM79L09UA	16	2	<b> </b>			M. RESISTOR CH 1/16W 10K	22	
	<b></b>		Ш	[1			M. RESISTOR CH 1/16W 1K	1	
L100-06	<del> </del>	COIL	7				M. RESISTOR CH 1/16W 100	2	
L302, 03	VLQ0163J6R8	COIL 6. BUH	2		R225-32	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	8	
L304	VLQ0163J120	COIL 12UH	1		R234	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	
	VLQ0163J560	COIL 56UH	2		R239	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	
			1		R250	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
		COIL 22UH	_''				The state of the s		
L305, 06		COIL 22UH	_'						

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Ref. No.	Part No.	Part Name & Descript	iorPcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R252	ERJ3GEYJ680	M. RESISTOR CH 1/16W	68 1		R404	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R253	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K 1	,	R405	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
		M. RESISTOR CH 1/16W	0 1		R406, 07	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	2	
R255			10K 1		R408	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R258			10K 1		R409		M. RESISTOR CH 1/10W 7.5K	1	
R260			10K 1		R410		M. RESISTOR CH 1/16W 1K	1	
			10K 2		R411		M. RESISTOR CH 1/16W 2.2K	1	
			-		R412	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
			10K 5				M. RESISTOR CH 1/16W 1K	1	
R273, 74			10K 2		R413			1	
R276			100 1		R414				
R302			47K 1				M. RESISTOR CH 1/16W 220		
			. 7K 1			ERJ6RBD221	M. RESISTOR CH 1/10W 220		
R304	ERJ3GEYJ153	M. RESISTOR CH 1/16W	15K 1		R419	ERJ6RBD271	M. RESISTOR CH 1/10W 270	1	<del> </del>
R305	ERJ3GEYJ563	M. RESISTOR CH 1/16W	56K 1		R420	ERJ6RBD121	M. RESISTOR CH 1/10W 120	1	
R306	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K 1		R421	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R307	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100 1		R422	ERJ6RBD121	M. RESISTOR CH 1/10W 120	1	
R308, 09	ERJ3RBD472	M. RESISTOR CH 1/10W 4	. 7K 2		R423, 24	ERJ6RBD271	M. RESISTOR CH 1/10W 270	2	-
R310, 11			10K 2		R425	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R312		M. RESISTOR CH 1/16W	47 1		R426	ERJ6RBD121	M. RESISTOR CH 1/10W 120	1	
R313			. 7K 1		R427	ERJ6RBD221	M. RESISTOR CH 1/10W 220	1	
R314			. 2K 1		R428	ERJ6RBD181	M. RESISTOR CH 1/10W 180	+	
			330 2	<del></del>	R429		M. RESISTOR CH 1/16W 47	+	
R315, 16					R430	<del></del>	M. RESISTOR CH 1/16W 470	+	
R317		M. RESISTOR CH 1/16W					M. RESISTOR CH 1/16W 2.2K	+	
R318			330 1		R431	ERJ3GEYJ222		+	
R320		-	0 1		R432		M. RESISTOR CH 1/16W 470		<del></del>
R321			330 1		R433	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K		
R322	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47 1		R434, 35	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	+	
R323, 24	ERJ3GEYJ331	M. RESISTOR CH 1/16W	330 2		R500	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	-	
R326	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 1		R502, 03		M. RESISTOR CH 1/16W 2.7K	+	· · · · · · · · · · · · · · · · · · ·
R329-32	ERJ3GEYG471	M. RESISTOR CH 1/16W	470 4		R504	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R334	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2	. 2K 1		R505	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R336			330 1		R508	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R337			. 2K 1		R507	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	22
R338		M. RESISTOR CH 1/16W	1K 1		R509	ERJ3GEYJ393	M. RESISTOR CH 1/18W 39K	1	
R339			100 1		R510		M. RESISTOR CH 1/18W 3.3K	1	
		M. RESISTOR CH 1/16W	1K 1		R511	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	+	
R340					R513	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K		
R341				(		ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K		
R342		M. RESISTOR CH 1/16W	1K 1		R514			+-	
R343			100 1	·	R515	ERJ3GEYJ681			
R344		M. RESISTOR CH 1/16W	1K 1		R516	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	+	
R345			100 1		R517	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	+	
R347, 48	ERJ3GEYJ221	M. RESISTOR CH 1/16W	220 2		R518		M. RESISTOR CH 1/16W 47	+-	
R349	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K 1		R519, 20	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	-	
R350	ERJ3GEYJ821	M. RESISTOR CH 1/16W	820 1		R521	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R351-53	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K 3		R522	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R354	ERJ3GEYJ821	M. RESISTOR CH 1/16W	820 1		R523	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R355, 56		M. RESISTOR CH 1/16W	1K 2		R524	ERJ3GEYJ681	M. RESISTOR CH 1/18W 680	1	
R357			150 1		R525	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1N	1 1	
R358			680 1		R526		M. RESISTOR CH 1/16W 120K	1	
R359			20K 1	<del></del>	R527	<del></del>	M. RESISTOR CH 1/16W 1.5K	-	
	<del>}</del>	M. RESISTOR CH 1/16W	47 1	<del></del>	R528		M. RESISTOR CH 1/16W 3, 3K		
R361	1				R529		M. RESISTOR CH 1/16W 5.6K		
R362		M. RESISTOR CH 1/16W	1K 1				M. RESISTOR CH 1/16W 47K	-	
R363		M. RESISTOR CH 1/18W	680 1		R530		M. RESISTOR CH 1/16W 4.7K	+-	
R364		M. RESISTOR CH 1/16W	1K 1		R531			+-	
R366			120 1		R532-34		M. RESISTOR CH 1/16W 1 FM	-	
R367		M. RESISTOR CH 1/16W	47 1		R535, 36		M. RESISTOR CH 1/16W 1.5K		<u> </u>
R368		M. RESISTOR CH 1/16W	1K 1	···	R537, 38		M. RESISTOR CH 1/16W 33K	-	
R369	ERJ3GEYJ681	M. RESISTOR CH 1/16W	680 1		R539	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K		
R370	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K 1		R540, 41	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K		
R372			120 1		R542	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R374, 75			5. 6K 2		R543	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R378			680 1		R544, 45	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R379			. 5K 1		R546	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	-	
R380			680 1		R547, 48		M. RESISTOR CH 1/18W 1.5K	-	<u> </u>
			680 1		R549	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K		
R382			-		R550	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47		<del></del>
R383							M. RESISTOR CH 1/16W 18	-	
R384			150 1		R551				-
R385	ERJ6RBD752		7. 5K 1		R554				
R386-88		· · · · · · · · · · · · · · · · · · ·	2. 2K 3	<del></del>	R555	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	-	·
R391, 92	+    .		2. 2K 2	<del>                                     </del>	R556, 57	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	-	
R393, 94			10K 2		R558	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680		<del></del>
R400	ERJ3GEYG332	M. RESISTOR CH 1/16W 3	3. 3K 1		R559	ERJ6RBD301	M. RESISTOR CH 1/10W 300	+-	
R401	ERJ3GEYG472	M. RESISTOR CH 1/16W 4	1. 7K 1		R560	ERJ3GEYG102	M. RESISTOR CH 1/16W · 1K	$\overline{}$	
R402	ERJ3GEYJ153	M. RESISTOR CH 1/16W	15K 1		R561		M. RESISTOR CH 1/16W 47		
R403	ERJ6RBD151	· · · · · · · · · · · · · · · · · · ·	150 1	1	R563	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
								$\perp$	
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		<del></del>	-	A					

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SAMPTINESS   RESISTED ON LYTER 3.0   1   1   1   1   1   1   1   1   1	Ref. No.	Part No.	Part Name & Descri	ption	cs Remarks				
MARKEY AND   RESISTED ON LYNE   104   1   1   1   1   1   1   1   1   1	R564	ERJ3GEYJ681	M. RESISTOR CH 1/16W	680	1	R906, 07			
BADENTARY   REPORT OF 1749   S. P. C.	R565	ERJ3GEYG332	M. RESISTOR CH 1/16W	3. 3K	1	R908-10	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	3
March   Marc	R566	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	R911	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1
SAME NO.   SAMEWARD   RESISTED OF 1/100   200   1	R567, 68	ERJ3GEYJ562	M. RESISTOR CH 1/16W	5. 6K	2	R912	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1
Page   Page					2	R913	ERJ3GEYJ683	M. RESISTOR CH 1/18W 68K	1
MAJESTRAZIO   MAJESTRAZIO DEL 17/08   1.0   1.									1
BALDERYTON   PROPERTY OF Information of Information   Property					·	1	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1
MAJESTAND   MAJE									1
SAME   SAMEWARD   RESISTED OF LYON   1.0									1
BRADERY   TABLES   MEDITED ON 1/168   20   1									
Part   Part				_			<del></del>		
BASE   CALLEGO	R576	ERJ3GEYJ470		_	1				<del>.                                     </del>
REAL PROPERTIES   RESISTION ON 1/196   10	R577	ERJ3GEYG332	M. RESISTOR CH 1/16W	3. 3K	1				
Sept	R578	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	R921, 22	ERJ3RBD102	M. RESISTOR CH 3W 1K	2
SEASE   CALAGRAPHICA   M. RESISTED ON 1/100   10   1	R579	ERJ3GEYOROO	M. RESISTOR CH 1/16W	0	1	R923	ERJ3GEYG332	M. RESISTOR_CH 1/16W 3.3K	1 -
READERSYSTON   RESISTENCE OF LYVEW 10   1   Reg2		ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	R924	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1
READER-VIOUR   MESTISTER OR 1/198   100   1					1	R925, 26	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2 .
REPORT   REPORT   RESISTED OF   1/198   00   24   REPORT   RESISTED OF   1/198   0.75   1									1
Separate   Separate									1
READER_CLOSS   RESISTED ON LYCEN   12   2   1   1   1   1   1   1   1							<del></del>		1
PRINCE   P				$\overline{}$					
READER/LIVED   RESISTED ON 1/198   100   1		. ,							
READER/LIZE   RESISTED ON 1/198 20   1   RESIS					·				1
BRIDE   BRIDERY LIST   MEST STORE ON 1/169   10   1   1   1   1   1   1   1   1	R702			100	1		<del></del>		1
BASSEN_115   BASSEN_116   BAS	R800 -	ERJ3GEYJ221	M. RESISTOR CH 1/16W	220	1	R933			
BROWN   BROW	R801	ERJ3GEYJ271	M. RESISTOR CH 1/16W	270	1	R934, 35	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2
BROAD   BAJOREVAREN   RESISTOR ON 1/198   100   1			~~~~	_	1	R950	ERDS2TJ273	C. RESISTOR 1/4W 27K	1
BRIGHT   B						R1000	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1 .
REPORT   SAUGREY-LIFE   M. RESISTER ON 1.198   10K   1				_					1
PRINCE   SAUGHTY-1909   MESSISTER CH 1/1909   Sex 1			***						1
SHIPPEN				_					1
Page 20   Page 1   Page 1   Page 2				$\overline{}$					1
BRISTOR   BAUGREY   A RESISTOR ON 1/16W   27K   1						<u> </u>	<del></del>		
Residence   Resi	R813, 14								2
READ   READ   RESISTOR CH   1/19W   4   NK   1			M. RESISTOR CH 1/16W	22K					
Fig.   Fig.	R816	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1	R1009			1
FRUIDE   F	R817	ERJ3GEYG472	M. RESISTOR CH 1/16W	4. 7K	1	R1010	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1
RR22   R.D.GEYGAT24   RESISTOR ON 1/19W 47   1   1010   ENJSEY/223   R.R.SISTOR ON 1/19W 22K 1   1   1   1   1   1   1   1   1   1	R820	ERJ3GEYJ473	M. RESISTOR CH 1/18W	47K	1	R1011	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1
RR22	R821			4. 7K	1	R1013	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1
RR023						R1014	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1
R824   RAJGEY1191									1
R825   RRJGEYU470   RESISTOR ON 1/16W 47   1					· · · · · · · · · · · · · · · · · · ·				1
R828   RR3GEY-1222				_					
R828   NECOMETION   NECOMETICAL   NECOMETION   NECOMETICAL									
R829_30									
R831.32							J		
R833   ERJSGEYORO   M. RESISTOR CH 1/16W   0   1				1.5K					1
R834-96   ERJSBERJ952   M. RESISTOR CH 1/16W   56K   1   R1026   ERJSBERJ9102   M. RESISTOR CH 1/16W   56K   1   R1026   ERJSBERJ9102   M. RESISTOR CH 1/16W   3.4K   1   R1026   ERJSBERJ9102   M. RESISTOR CH 1/16W   3.4K   1   R1026   ERJSBERJ9102   M. RESISTOR CH 1/16W   3.4K   1   R1026   ERJSBERJ9102   M. RESISTOR CH 1/16W   3.4K   1   R1026   ERJSBERJ9102   M. RESISTOR CH 1/16W   3.4K   1   R1026   ERJSBERJ9102   M. RESISTOR CH 1/16W   3.4K   1   R1026   ERJSBERJ9102   M. RESISTOR CH 1/16W   3.4K   1   R1026   ERJSBERJ9102   M. RESISTOR CH 1/16W   1   M. R1044   M. RESISTOR CH 1/16W   M. R1044   M. RESISTOR CH 1/16W   M. R1044   M. RESISTOR CH 1/16W   M. R1044   M. RESISTOR CH 1/16W   M. R1044   M. RESISTOR CH 1/16W   M. R1044   M. RESISTOR CH 1/16W   M. R1044   M. RESISTOR CH 1/16W   M. R1044   M	R831, 32	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2	R1022, 23			
R837   RRJGEYUSSS   M. RESISTOR CH   1/16W   36K   1	R833	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	R1024			1
R038-40   ERJGRED152   M. RESISTOR CH   716W   3.3K   1	R834-36	ERJ3RBD152	M. RESISTOR CH 3W	1.5K	3	R1025	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	_1
R841 ERJ3GEYG132 M. RESISTOR CH 1/16W 120K 1 R842 ERJ3GEYG123 M. RESISTOR CH 1/16W 120K 1 R843 ERJ3GEYG124 M. RESISTOR CH 1/16W 120K 1 R843 ERJ3GEYG128 M. RESISTOR CH 1/16W 16K 2 R849.50 ERJ3GEYJB81 M. RESISTOR CH 1/16W 16K 2 R849.50 ERJ3GEYJB81 M. RESISTOR CH 1/16W 680 2 R849.50 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 1 R851 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 1 R852 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 1 R852 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 1 R852 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 1 R852 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 1 R852 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 1 R852 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 2 M R853 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 2 M R854 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 2 M R855 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 2 M R856 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 0 M R857 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 0 M R857 ERJ3GEYJB81 M. RESISTOR CH 1/16W 0 0 M R868 ERJ3GEYJB81 M. RESI	R837	ERJ3GEYJ563	M. RESISTOR CH 1/16W	56K	1	R1026	ERJ3GEYG822	M. RESISTOR CH 1/16W 8:2K	1
R841   ERJ3GEYG122   M. RESISTOR CH 1/16W 12	R838-40	ERJ3RBD152	M. RESISTOR CH 3W	1.5K	3	R1027	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1
R842   ERJ3GEYJ124   M. RESISTOR CH 1/16W 120K   1   R1030   ERJ3GEYG102   M. RESISTOR CH 1/16W 10   1   R1036   ERJ3GEYJ101   M. RESISTOR CH 1/16W 10   1   R1036   ERJ3GEYJ101   M. RESISTOR CH 1/16W 10   1   R1050   ERJ3GEYJ103   M. RESISTOR CH 1/16W 680   2   R1050   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10   1   R1050   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10   1   R1050   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10   1   R1050   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10   1   R1050   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10   1   R1051   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10   1   R1052   ERJ3GEYJ202   M. RESISTOR CH 1/16W 10   1   R1052   ERJ3GEYJ203   M. RESISTOR CH 1/16W 10   1   R1052   ERJ3GEYJ203   M. RESISTOR CH 1/16W 10   1   R1054   ERJ3GEYJ203   M. RESISTOR CH 1/16W 10   1   R1054   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10   1   R1055   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10   1   R1055   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10   1   R1055   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ104   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10   1   R1057   ERJ3GE	R841	ERJ3GEYG332	M. RESISTOR CH 1/16W	3. 3K	1	R1028	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1
R843   ERJ3RBD181   M. RESISTOR CH 3W 180   1					1	R1030	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1
R844, 45   ERJ3GEYJ83   M. RESISTOR CH 1/16W 10K 2   R1050   ERJ3GEYJ103   M. RESISTOR CH 1/16W 470 1   R1051   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10K 1   R1052   ERJ3GEYJ103   M. RESISTOR CH 1/16W 2.2K 1   R1053   ERJ3GEYJ103   M. RESISTOR CH 1/16W 2.2K 1   R1053   ERJ3GEYJ103   M. RESISTOR CH 1/16W 2.2K 1   R1053   ERJ3GEYJ103   M. RESISTOR CH 1/16W 2.2K 1   R1054   ERJ3GEYJ103   M. RESISTOR CH 1/16W 2.2K 1   R1054   ERJ3GEYJ103   M. RESISTOR CH 1/16W 2.2K 1   R1055   ERJ3GEYJ103   M. RESISTOR CH 1/16W 2.2K 1   R1054   ERJ3GEYJ103   M. RESISTOR CH 1/16W 2.2K 1   R1055   ERJ3GEYJ103   M. RESISTOR CH 1/16W 2.2K 1   R1055   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10K 1   R1055   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10K 1   R1055   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10K 1   R1055   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10K 1   R1055   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10K 1   R1055   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10K 1   R1055   ERJ3GEYJ103   M. RESISTOR CH 1/16W 10K 1   R1055   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1055   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1055   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1057   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1058   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1058   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1058   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1058   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1058   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1105   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1105   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1105   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1105   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1105   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1105   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1105   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1105   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1105   ERJ3GEYJ105   M. RESISTOR CH 1/16W 10K 1   R1105   ERJ3GEYJ105   M. RESISTOR CH 1/16W 1									1
R849, 50   ERJ3GEYJ081   M. RESISTOR CH 1/16W   680   2         R1051   ERJ3GEYJ103   M. RESISTOR CH 1/16W   10K   1     R1052   ERJ3GEYJ222   M. RESISTOR CH 1/16W   22K   1   R1053   ERJ3GEYJ222   M. RESISTOR CH 1/16W   22K   1   R1053   ERJ3GEYJ323   M. RESISTOR CH 1/16W   22K   1   R1054   ERJ3GEYJ323   M. RESISTOR CH 1/16W   22K   1   R1054   ERJ3GEYJ323   M. RESISTOR CH 1/16W   10K   1   R1054   ERJ3GEYJ323   M. RESISTOR CH 1/16W   10K   1   R1055   ERJ3GEYJ323   M. RESISTOR CH 1/16W   10K   1   R1055   ERJ3GEYJ323   M. RESISTOR CH 1/16W   10K   1   R1055   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1055   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1055   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1055   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1055   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1056   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1056   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1056   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1056   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1056   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1056   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1056   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1056   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1056   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1056   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. RESISTOR CH 1/16W   10K   1   R1105   ERJ3GEYJ32   M. R			·····	_	·				
R851 ERJ3GEYJ0RO M. RESISTOR CH 1/16W 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									1
R852 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2. K 1  R853 ERJ3GEYJ2470 M. RESISTOR CH 1/16W 47 1  R854 ERJ3GEYJ251 M. RESISTOR CH 1/16W 820 1  R855, 56 ERJ3GEYJ261 M. RESISTOR CH 1/16W 820 1  R857 ERJ3GEYJ391 M. RESISTOR CH 1/16W 390 1  R858 ERJ3GEYJ391 M. RESISTOR CH 1/16W 390 1  R859, 59 ERJ3GEYJ391 M. RESISTOR CH 1/16W 47 2  R859 ERJ3GEYJ391 M. RESISTOR CH 1/16W 47 2  R850 ERJ3GEYJ391 M. RESISTOR CH 1/16W 47 2  R850 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R850 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R860 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R861 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R862 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R863 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R864 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R865 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R866 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R867 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R868 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R869 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R860 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R861 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R862 ERJ3GEYJ470 M. RESISTOR CH 1/16W 47 1  R863 ERJ3GEYJ471 M. RESISTOR CH 1/16W 47 1  R864 ERJ3GEYJ471 M. RESISTOR CH 1/16W 0 1  R865 ERJ3GEYJ471 M. RESISTOR CH 1/16W 0 1  R866 ERJ3GEYJ471 M. RESISTOR CH 1/16W 0 1  R867 ERJ3GEYJ472 M. RESISTOR CH 1/16W 10K 1  R868 ERJ3GEYJ472 M. RESISTOR CH 1/16W 10K 1  R870 ERJ3GEYJ472 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ473 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ473 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ473 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ473 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ474 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ474 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ474 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ474 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ474 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ474 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ474 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ474 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ474 M. RESISTOR CH 1/16W 00 0 1  R871 ERJ3GEYJ474 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ474 M. RESISTOR CH 1/16				$\rightarrow$					1
R853				_					
R854   ERJ3GEYJ821   M. RESISTOR CH 1/16W   820   1				_					_:
R855, 58 ERJ3GEYJ891 M. RESISTOR CH 1/16W 680 2 RIOS6 ERJ3GEYJ101 M. RESISTOR CH 1/16W 100 1  R857 ERJ3GEYJ391 M. RESISTOR CH 1/16W 390 1 RIOS7 ERJ3GEYJ101 M. RESISTOR CH 1/16W 100 1  R858, 59 ERJ3GEYJ200 M. RESISTOR CH 1/16W 47 2 RIOS8 ERJ3GEYJ101 M. RESISTOR CH 1/16W 100 1  R860 ERJ3GEYJ200 M. RESISTOR CH 1/16W 22 1 RIOS8 ERJ3GEYJ101 M. RESISTOR CH 1/16W 100 1  R861 ERJ3GEYJ200 M. RESISTOR CH 1/16W 47 1 RIOS8 ERJ3GEYJ101 M. RESISTOR CH 1/16W 5. 6K 1  R862 ERJ3GEYJ201 M. RESISTOR CH 1/16W 820 1 RIOS8 ERJ3GEYJ103 M. RESISTOR CH 1/16W 3. 3K 1  R863 ERJ3GEYJ203 M. RESISTOR CH 1/16W 0 1 1 RIOS8 ERJ3GEYJ103 M. RESISTOR CH 1/16W 3. 3K 1  R864 ERJ3GEYJ203 M. RESISTOR CH 1/16W 0 1 1 RIOS8 ERJ3GEYJ103 M. RESISTOR CH 1/16W 5. 6K 1  R865 ERJ3GEYJ203 M. RESISTOR CH 1/16W 22K 1 RIOS8 ERJ3GEYJ103 M. RESISTOR CH 1/16W 5. 6K 1  R870 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1  R871 ERJ3GEYJ103 M. RESISTOR CH 1/16W 20K 1  R881 ERJ3GEYJ103 M. RESISTOR CH 1/16W 20K 1  R890 ERJ3GEYJ224 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ224 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ224 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ103 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ103 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ103 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ103 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ103 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ103 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ103 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ103 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ103 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ103 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ103 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 1  R890 ERJ3GEYJ105 M. RESISTOR CH 1/16W 68K 1  R890 ERJ3GEYJ106 M. RESISTOR CH 1/16W 10K 1  R890 ERJ3GEYJ107 M. RESISTOR CH 1/16W 10K 1  R890 ERJ3GEYJ108 M. RESISTOR CH 1/16W 10K 1  R890 ERJ3GEYJ109 M. RESISTOR CH 1/16W 10K 1									
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		M. RESISTOR CH 1/16W 100						-	
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R1128	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1					L_	
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## Supplement to the Service Manual

**Broadcast Product** 

### Subject : Change of Blinder Panel

ease use this supplement together with the Service Manual as follows:					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D750E/EN	104	VSD9606M502A	H7TRB0001		
AJ-D650E	76	VSD9612MJ01A	H7TRA0001		
AJ-D640E	76	VSD9612MJ01A	H7TRA0001		

#### Front Panel Assembly

To prevent the S cassette from inserting without the adaptor incorrectly, the caution letter is printed to the Blinder Panel. According to this change, the Blinder Panel is changed from VKF2688 to VKF2785.

#### AJ-D750

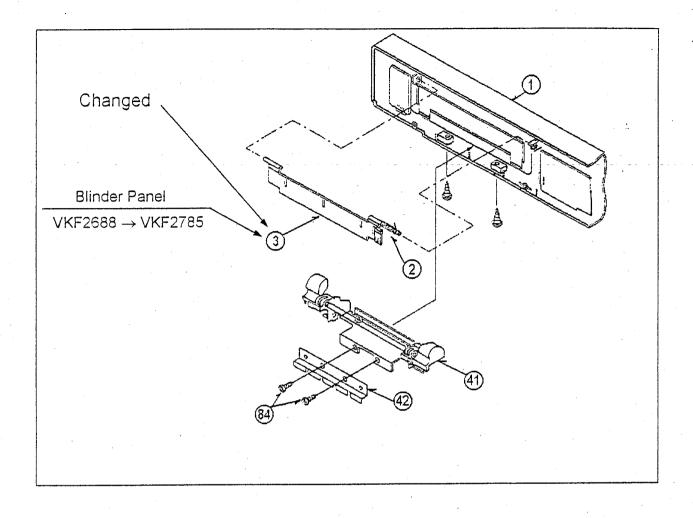
Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
3	VKF2688	VKF2785	BLINDER	1	

#### AJ-D650/D640

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
6	VKF2688	VKF2785	BLINDER PANEL	1	

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## Supplement to the Service Manual

**Broadcast Product** 

### Subject: Reduction of Noisy Sound

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	105	VSD9606M502A	H7TRB0001
AJ-D650E	77	VSD9612MJ01A	H7TRA0001
AJ-D640E	77	VSD9612MJ01A	H7TRA0001
AJ-LT75E	21	VSD9707M602A	H7TNA0001
AJ-D230E	16	VSD9708M605	17TDA0001

Mechanical Chassis Assembly (2)

Symptom: Noisy sound may be heard from the Motor Emergency Gear during Loading mode.

Cause : Motor Emergency Gear (A) and (B) may always be contact with the Loading Motor Gear. It results in

noisy sound.

Remedy: To reduce the noisy sound, the following modification is performed.

1). Loading Motor, Motor Emergency Gear (A) and (B) are changed.

2). E.E. Spring (VMB3192) is added under the Motor Emergency Gear (A) as shown in figure 2.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
7	VEM0584	VEM0645	LOADING MOTOR (1) AU	1	
43	VDG1187	VDG1268	MOTOR EMERGENCY GEAR A	1 1	
44	VDG1186	VDG1267	MOTOR EMERGENCY GEAR B	1 1	
56		VMB3192	E.E. SPRING	0→1	

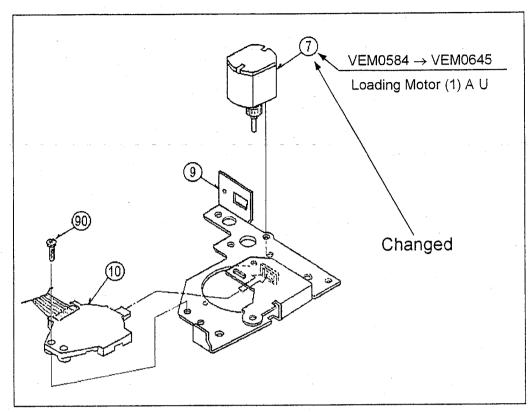


Fig. 1

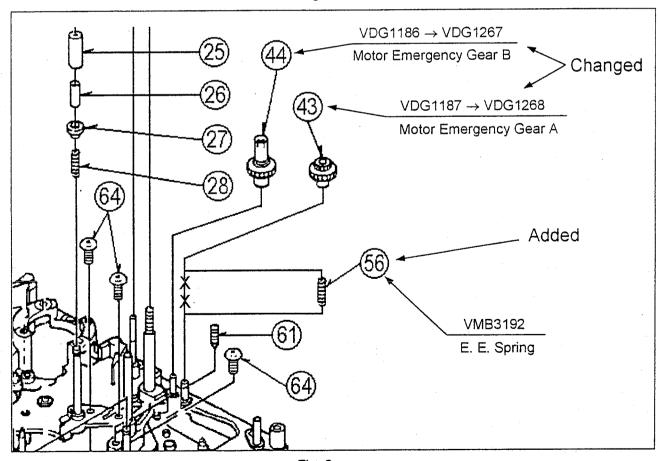


Fig. 2

## Supplement to the Service Manual

**Broadcast Product** 

### Subject: Change of Factory Default Setting of DIP SW 501-8

Please use this supplement together with the Service Manual as follows:							
Model No.	Bulletin No.	Order No.	Effective from				
AJ-D650E	78	VSD9612MJ01A/B	.H7TRA0001				
AJ-D640E	78	VSD9612MJ01A/B	H7TRA0001				

Board : System Control (F2:VEP86146E) - AJ-D650 System Control (F2:VEP86146F) - AJ-D640

Factory default setting of DIP SW 501-8 on F2 System Control P.C.Board is set to ON from the August 1997 production. According to this, the following function can be available.

- 1). RS-232C Control function
- 2). DVCPRO/DV/DVCAM Playback select function

Regarding to the details information, please refer to the Technical Bulletin No. VSD9705SC620.

# Technical Bulleti

# Supplement to the Service Manual

**Broadcast Product** 

### Subject: Countermeasure for Power Supply OFF

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	107	VSD9606M502A/B	I7TRB0001
AJ-D650E	79	VSD9612MJ01A/B	I7TRA0001

Board: Power 1 (VEP81074B) Power 2 (VEP81075B)

Symptom: Power may be turned OFF suddenly.

Cause

- : 1). As the noise may jump into the Power Supply Protection circuit, it may malfunction.
  - 2). Fixing screw of Power 2 Board may be loosened.
  - 3). Noise may appear due to the high impedance between P.C. Board and Head Sink.

Remedy: To prevent the Power OFF, the Power 1 and Power 2 Boards are changed as follows and the following modification is performed.

> Power 1 Board (VEP81074B-3/VJB81074-3) Power 2 Board (VEP81075B-2/VJB81075-1)

- \* The unit produced before Serial Number I7TNB\*\*\*\* (AJ-D750) or I7TNA\*\*\*\* (AJ-D650/D640)
- < Power 1 Board >
- 1). Resistor R1002 is changed from 1/4W,  $4.7K\Omega$  to 1/4W,  $6.8K\Omega$  on the component side as shown in
- 2). Resistor R1025 is changed from 1/4W,  $10K\Omega$  to 1/4W,  $33K\Omega$  on the component side as shown in figures 1 and 3.
- 3). Resistor R1044 (1/4W, 100K $\Omega$ ) is removed and new resistor R1044 (1/4W, 68K $\Omega$ ) and capacitor  $C1033~(50V/0.082\mu F)$  are inserted to the same portion together after the removing portion of old R1044 on the component side as shown in figures 1 and 3.
- 4). Solders of the screw holes are absorbed on the component side as shown in figure 2.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
C1033		ECQV1H823JL	P. CAPACITOR 50V 0.082U	0→1	
R1002	ERDS2FJ472	ERDS2FJ682	C. RESISTOR 1/4W 6.8K	1	
R1025	ERDS2FJ103	ERDS2FJ333	C. RESISTOR 1/4W 33K	1	
R1044	ERDS2FJ104	ERDS2FJ683	C. RESISTOR 1/4W 68K	1 1	

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### < Power 2 Board >

- 1). Four fixing screws for Heat Sink are changed from XYN3+C8FZS to XYE3+EF8 on the foil side as shown in figure 4.
- 2). After change of screws, two of them are tightened more and more on the foil side as shown in figures 4.
- 3). Solder of the screw hole is absorbed on the component side as shown in figure 5.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
	XYN3+C8FZS	XYE3+EF8	SCREW	4	

### < Power Unit >

- 1). After installing the Power 1 Board, two washers (XWC4BFY) are added to the fixing screws on the component side as shown in figure 6.
- 2). After installing the two washers to the fixing screws, they are tightened more and more on the component side as shown in figure 6.
- 3). The fixing screws for Power 2 Board are tightened more and more as shown in figure 8.
- 4). After installing the Power 2 Board, the insulation sheet (VMZ2503) is changed to transparency type on the component side as shown in figure 7.
- 5). The fixing screw for Power Box is tightened more and more as shown in figure 9.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
		XWC4BFY	WASHER	0→2	
	VMZ2503	VMZ2503	INSULATION SHEET	1	

### \* The unit produced after Serial Number I7TNB\*\*\*\* (AJ-D750) or I7TNA\*\*\*\* (AJ-D650/D640)

< Power 1 Board >

- 1). A new pattern layout P.C. Board (VJB81074-3/VEP81074B-3) is introduced.
- 2). Resistor R1002 is changed from 1/4W,  $4.7K\Omega$  to 1/4W,  $6.8K\Omega$  on the component side as shown in figures 1 and 3.
- 3). Resistor R1025 is changed from 1/4W,  $10K\Omega$  to 1/4W,  $33K\Omega$  on the component side as shown in figures 1 and 3.
- 4). Resistor R1044 (1/4W, 100K $\Omega$ ) is removed and new resistor R1044(1/4W, 68K $\Omega$ ) and capacitor C1033 (50V/0.082 $\mu$ F) are inserted after the removing portion of old R1044 on the component side as shown in figures 1 and 3.

Part Number						
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks	
C1033		ECQV1H823JL	P. CAPACITOR 50V 0.082U	0→1		
R1002	ERDS2FJ472	ERDS2FJ682	C. RESISTOR 1/4W 6.8K	11		
R1025	ERDS2FJ103	ERDS2FJ333	C. RESISTOR 1/4W 33K	11		
R1044	ERDS2FJ104	ERDS2FJ683	C. RESISTOR 1/4W 68K	11		

### < Power 2 Board >

- 1). A new pattern layout P.C. Board (VJB81075-1/VEP81075B-2) is introduced.
- 2). Four fixing screws for Heat Sink are changed from XYN3+C8FZS to XYE3+EF8 on the foil side as shown in figure 4.
- 3). Earth lug is added to the foil side as shown in figure 10.

Part Number	rt Number				
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
	XYN3+C8FZS	XYE3+EF8	SCREW	4	
		VEE0C18	EARTH LUG	0→1	

### < Power Unit >

- 1). Insulation Sheet (VMZ2502) is changed to transparency type as shown in figure 6.
- 2). After installing the Power 1 Board, two washers (XWC4BFY) are added to the fixing screws on the component side as shown in figure 6.
- 3). After installing the two washers to the fixing screws, they are tightened more and more on the component side as shown in figure 6.

- 4). The fixing screws for Power 2 Board are tightened more and more as shown in figure 8.
- 5). After installing the Power 2 Board, the insulation sheet (VMZ2503) is changed to transparency type on the component side as shown in figure 7
- 6). The fixing screw for Power Box is tightened more and more as shown in figure 9.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
		XWC4BFY	WASHER	0→2	
	VMZ2502	VMZ2502	INSULATION SHEET	1   1	
	VMZ2503	VMZ2503	INSULATION SHEET ,	1	

Power 1 Schematic Diagram

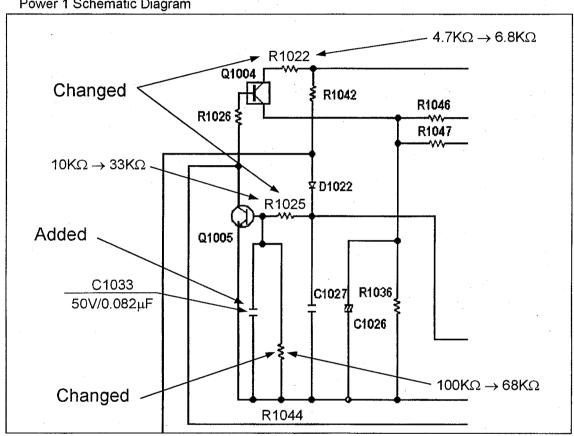


Fig. 1

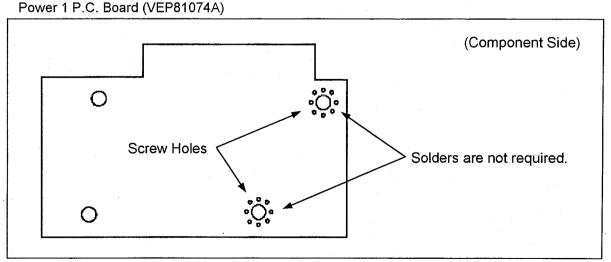


Fig. 2

Power 1 P.C. Board (VEP81074A)

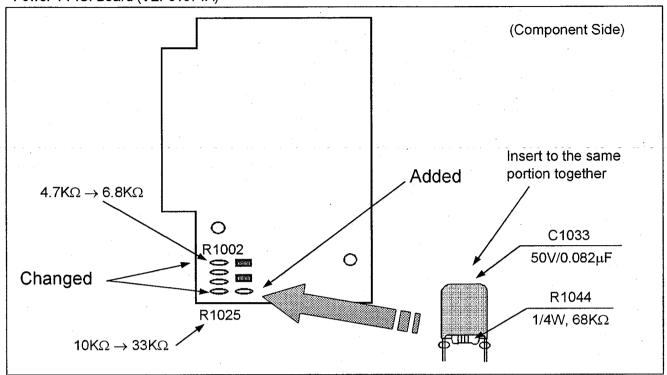
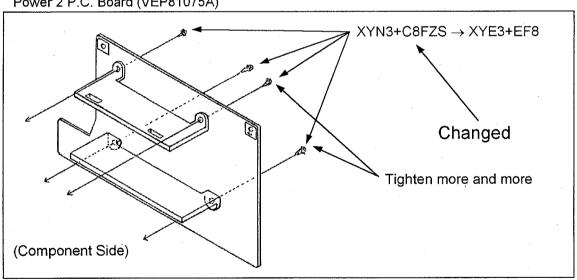


Fig. 3

Power 2 P.C. Board (VEP81075A)



Power 2 P.C. Board (VEP81075A)

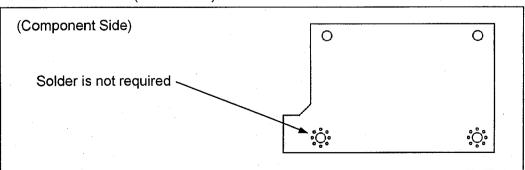


Fig. 4

Fig. 5

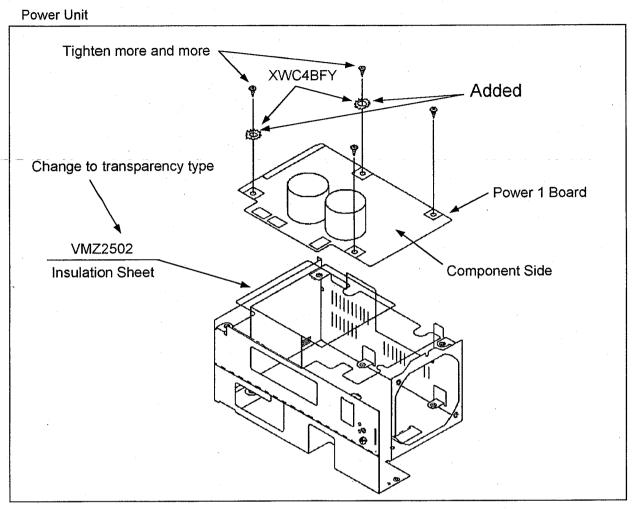


Fig. 6

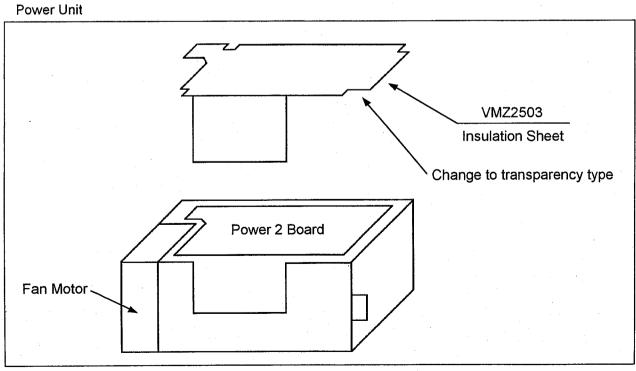


Fig. 7

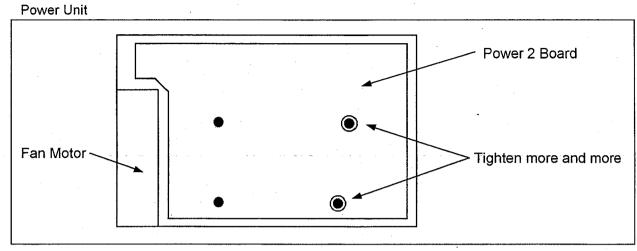
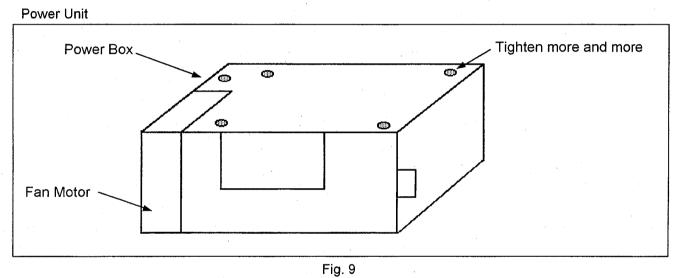


Fig. 8



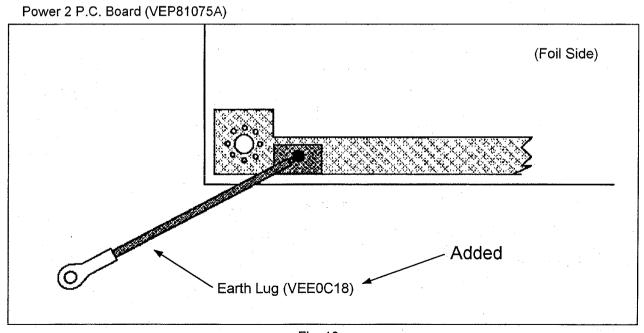


Fig. 10

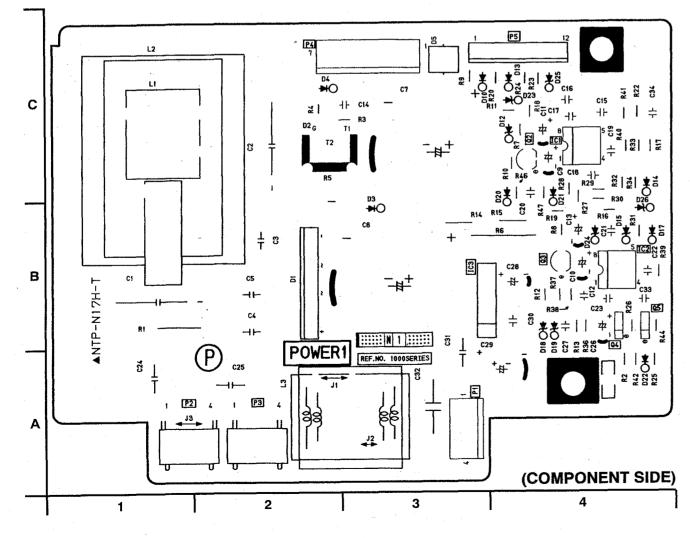
# POWER 1 P.C.BOARD (VEP81074A) – FOR NTSC (VEP81074B) – FOR PAL

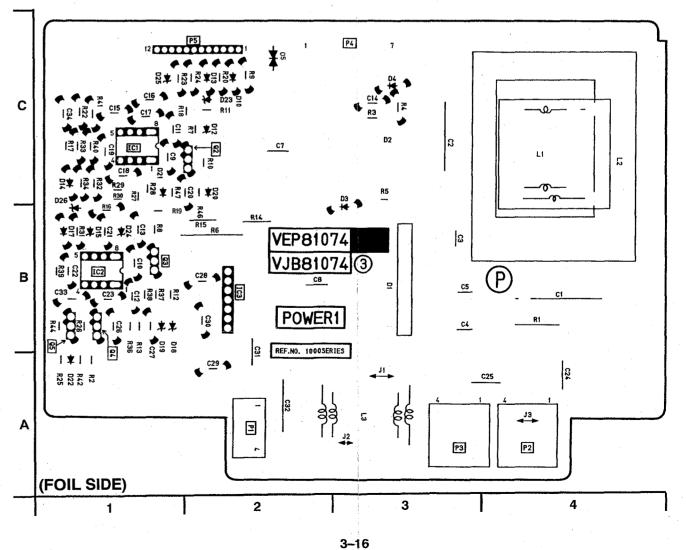
POWER 1 (COMPONENT SIDE)					
Transistors		Connector			
Q1002	C-4	P1001	A-3		
Q1003	B-4	P1002	A-1		
Q1004	B-4	P1003	A-2		
Q1005	B-4	P1004	C-2		
Integrated	Circuit	P1005	C-3		
IC1001	C-4				
IC1002	B-4				
IC1003	B-3				

ADDRESS INFORMATION

POWER 1 (FOIL SIDE)				
Transistors		Con	nector	
Q1002	C-2	P1001	A-2	
Q1003	B-1	P1002	A-4	
Q1004	B-1	P1003	A-3	
Q1005	B-1	P1004	C-3	
Integrated	I Circuit	P1005	C-1	
IC1001	C-1	-		
IC1002	B-1			
IC1003	B-2			

ADDRESS INFORMATION

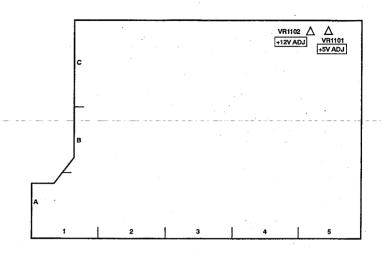


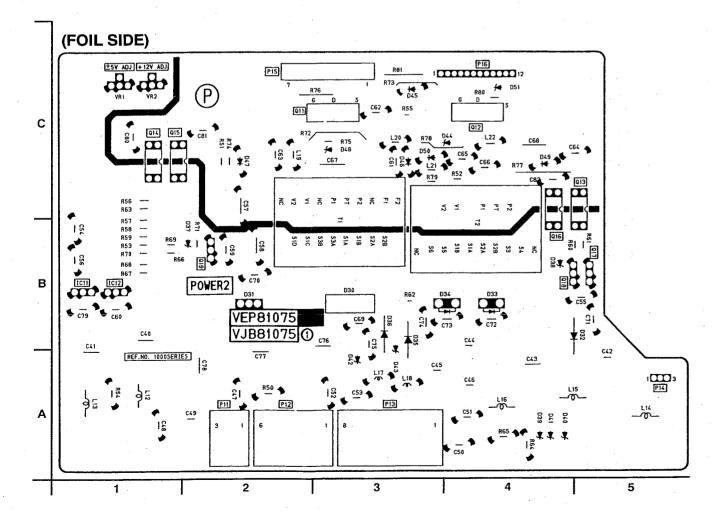


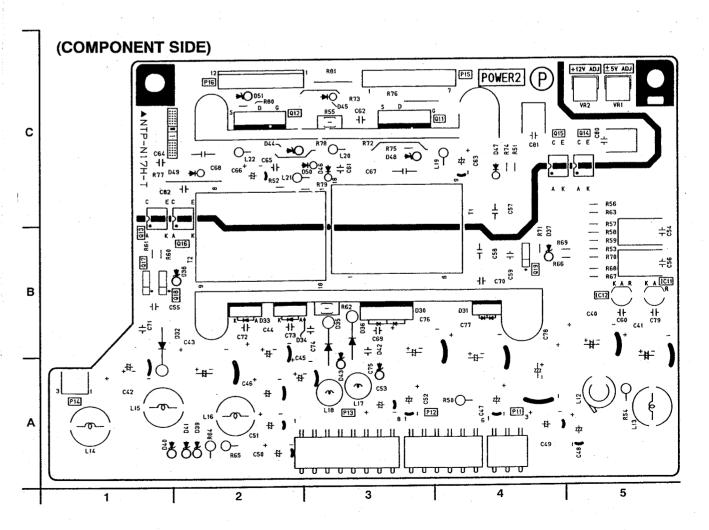
# POWER 2 P.C.BOARD (VEP81075A) – FOR NTSC (VEP81075B) – FOR PAL

POWER 2 (FOIL SIDE)					
Trans	sistors	Adjustment			
Q1011	C-2	VR1001	C-1		
Q1012	C-4	VR1002	C-1		
Q1013	C-5	Conn	ector		
Q1014	C-1	P1011	A-2		
Q1015	C_1	P1012	_A-2		
Q1016	C-4	P1013	A-3		
Q1017	B-5	P1014	A-5		
Q1018	B-5	P1015	C-2		
Q1019	B-2	P1016	C-4		
Integrated	Circuit				
IC1011	B-1				
IC1012	B-1				
ADDRESS INF	ORMATION				

	POWER 2 (COMPONENT SIDE)						
	Transistors		Adjustment				
	Q1011	C-3	VR1001	C-5			
	Q1012	C-2	VR1002	C-5			
	Q1013	C-1	Conr	ector			
	Q1014	C-5	P1011	A-4			
-	Q1015	C-4_	_P1012	A-3			
	Q1016	C-2	P1013	A-3			
	Q1017	B-1	P1014	A-1			
	Q1018	B-1	P1015	C-3			
	Q1019	B-4	P1016	C-2			
	integrated	d Circuit					
	IC1011	B-5					
	IC1012	B-5					
	ADDRESS INF	ORMATION					









Order No. VSD9710SA709

# Technical Bulletin

# Supplement to the Service Manual

**Broadcast Product** 

### Subject: Improvement of Picture Disturbance during INSERT Edit Mode

Please use this supplement together with the Service Manual as follows :				
Model No.	Bulletin No.	Order No.	Effective from	
AJ-D750E/EN V4 77 22	i+ 177727109	VSD9606M502A/B	I7TRB0001	
AJ-D650E VA8A45	5+V18116 80	VSD9612MJ01A/B	17TRA0001	
AJ-D640E ∦	∜ 80	VSD9612MJ01A/B	17TRA0001	

Board: EQ (H3:VEP85048A)

Symptom: Picture may be disturbed during INSERT Edit mode.

Cause

: Output of the 3 terminals regulator IC which supplies the power to the Equalizer IC may be fluctuated during INSERT Edit mode. And then, playback signal may be distorted. It results in PLL misdetection.

Remedy: To prevent the picture disturbance, the following modification is performed.

- 1). Float the leg of pin #51 of IC5207 and adhere the insulation tape under it on the component side as shown in figures 1 and 2.
- 2). Install a new capacitor (0.1 µF) between C5221 and pin #51 of IC5207 which floated on the component side as shown in figures 1 and 2.
- 3). Connect a jumper wire between pin #51 of IC5207 and pin #20 of IC5210 on the component side as shown in figures 1 and 2.
- \* Note \*

When the Cylinder Unit is replaced, this modification is performed.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
		VCK0134K104	C. CAPACITOR 0.1U	0→1	

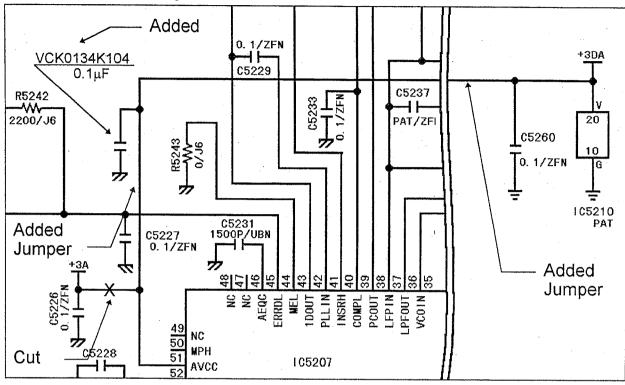


Fig 1 Page 2-167 (AJ-D750) / Page 2-129 (AJ-D650/D640)

H3 EQ P.C. Board (VEP85048A)

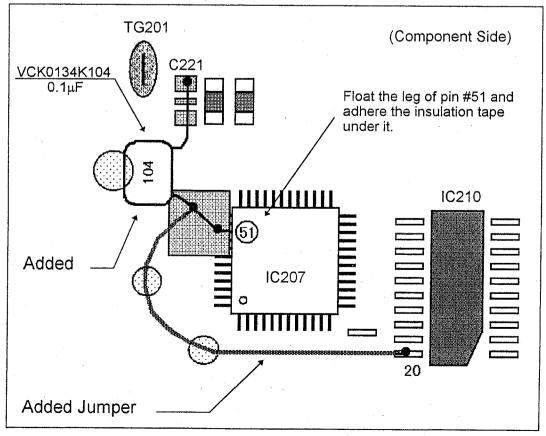


Fig 2 Page 3-12 (AJ-D750) / Page 3-10 (AJ-D650/D640)

# Technical Bulletin

# Supplement to the Service Manual

**Broadcast Product** 

### Subject: Addition of Mode SW Cover

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	110	VSD9606M502A	17TRB0001
AJ-D650E	81	VSD9612MJ01A	17TRA0001
AJ-D640E	81	VSD9612MJ01A	17TRA0001
AJ-LT75E	27	VSD9707M602A	17TNA0001
AJ-D230E -	21	VSD9708M605	17TDA0001
AJ-D700E/EN ~	65	VSD9606M501A	17TKA0001
AJ-D800E/EN	14	VSD9708M606A	17TKA0001
AJ-D200HE	17	VSD9708M604	17TKA0001

Mechanical Chassis Assembly (2)

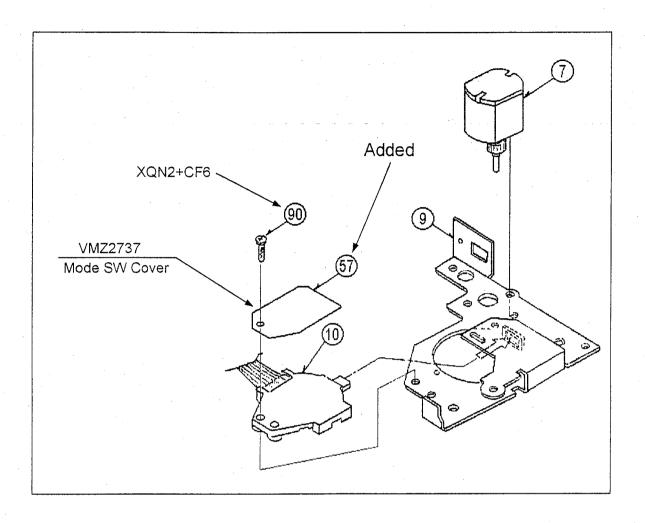
Symptom: Mode SW may be malfunctioned.

Cause : Sharpened powder of the Solenoid Base may fall on the Mode SW. It results in Mode SW

malfunction.

Remedy: To prevent it, the Mode SW Cover (VMZ2737) is added to the Mode SW unit as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
57	~==	VMZ2737	MODE SW COVER	0>1	
90		XQN2+CF6	SCREW	0→1	Not listed in parts list



Order No. VSD9711SC629

# **Technical Bulletin**

# Supplement to the Service Manual

**Broadcast Product** 

### **Subject: Software Version Up Grade**

Please use this supplement together with the Service Manual as follows :						
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D650E	83	VSD9612MJ01A/B	I7TRA0001			
AJ-D640E	83	VSD9612MJ01A/B	17TRA0001			

Board : System Control (F2:VEP86146E) - AJ-D650 System Control (F2:VEP86146F) - AJ-D640

The following software has been up-dated to improve the functioning of the VTR.

Part Number						
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks	
IC2	VSI2397B	VSI2397C	F2 SYSTEM PROM Ver. P1.03	1	for AJ-D650	
IC2	VSI2400B	VSI2400C	F2 SYSTEM PROM Ver. P1.03	1	for AJ-D640	

### < TEST MENU >

SERVO	IC235	: F1-P1.08	1416	* SYSTEM IC2	: F2-P1.03	E83A	AJ-D650
ΑV	IC702	: F2-P1.03	1B42	* SYSTEM IC2	: F2-P1.03	5C08	AJ-D640
FRONT	IC2	: FP-1.01	A8BB	I/F IC503	: F2-P1.04	A40F	AJ-D650
				I/F IC503	: F2-P1.04	FBF4	AJ-D640

### \* Note \*

The hardware modification must be required since the following software version. (Servo/P1.08, System Control/P1.02, Interface/P1.04, AV/P1.03, Front/1.01). When the software is up-graded this time, please confirm the P.C. Board version. If the P.C. Board is not modified, the following modification must be performed.

[ H3 EQ Board ]

Please refer to the Technical Bulletin No. VSD9705SC620.

Symptom: AUTO OFF "S REEL TORQUE ERROR" may be occurred when the L cassette tape which is wound to tape beginning is inserted.

Cause : Supply Reel torque over may occur when the tape rushes into the tape beginning by Short FF function due to the mis-detection of tape end/beginning.

Remedy: System Control software version is up-graded to P1.06. At the same time, the following software version must be up-graded to the following version. Please refer to the Technical Bulletin No. VSD9705SC620.

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Servo	VSI2280J	P1.08	1416	
I/F	VSI2398D	P1.04	A40F	for AJ-D650E
	VSI2401D	P1.04	FBF4	for AJ-D640E
AV	SI2399C	P1.03	1B42	
FRONT	VSI2386A	1.01	A8BB	

A A A

Order No. VSD9711SC630

# **Technical Bulletin**

# Supplement to the Service Manual

**Broadcast Product** 

### **Subject: Improvement of Video Output Line Shift**

Please use this supplement together with the Service Manual as follows :						
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D650E	84	VSD9612MJ01A/B	J7TRA0001			
AJ-D640E	<sup>.</sup> 84	VSD9612MJ01A/B	J7TRA0001			

Board: VOUT (F4:VEP83352B)

Symptom: When the INPUT SELECT is set to "DIGITAL" using AJ-D650/D640 as a Player without connecting

the SDI, video output is shifted 3 lines.

Cause : Switching signal of EE/VV is not functioned correctly.

Remedy: To prevent it, PLD IC700 is changed from VSI2500 to VSI2500A.

\* Note \*

To prevent it temporarily, INPUT SELECT is changed from "DIGITAL" to "ANALOG".

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC700	VSI2500	VJS2500A	IC	1	CHECK SUM:002460AB

	Ref. No.	Schematic Diagram		P.C.Board	
-		Page	Area No.	Page	Area No.
Ī	IC700	2-53	C~E-4~6 (9/16)	3-5	A-4 (C)



# **Technical Bulletin**

# Supplement to the Service Manual

**Broadcast Product** 

### **Subject: Countermeasure for Picture Freeze**

Please use this supplement together with the Service Manual as follows:					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D650E	85	VSD9612MJ01A/B			
AJ-D640E	85	VSD9612MJ01A/B			

Board: REC PB (F5:VEP83353B)

Symptom: Picture may be frozen when the random noise signal is input.

Cause : Communication error between AV and SBC may occur due to the reference pulse disturbance. It results in picture freeze.

Remedy: To prevent it, the following modification is performed.

- 1). Cut the foil between pin #11 of IC104 and through hole (A) on the foil side as shown in figures 1 and 2.
- 2). Connect a jumper wire between pin #11 of IC104 on the foil side and through the hole and pin #4 of IC601 on the component side as shown in figures 1 and 2.

### \* Note \*

This modification is only effective to the following P.C. Board. VJB83353, -1 / VEP83353B, B-1

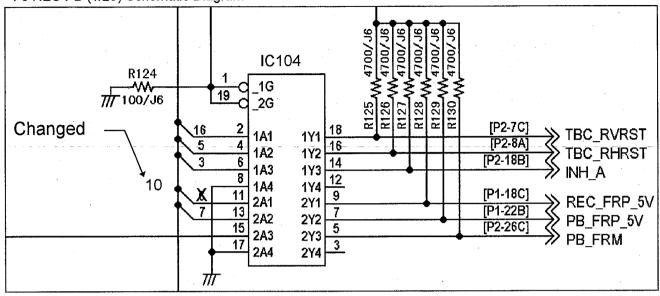


Fig. 1 Page 2-61 (B-8)

### F5 REC PB P.C. Board (VEP83353B)

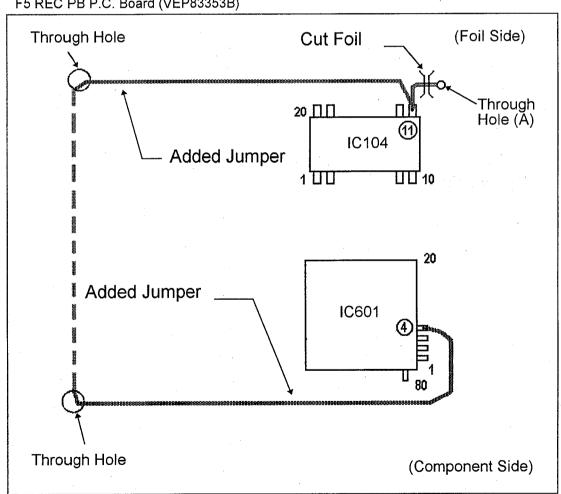


Fig. 2 Page 3-6



# **Technical Bulletin**

# Supplement to the Service Manual

**Broadcast Product** 

Subject : Change of IC

Please use this supplement together with the Service Manual as follows :						
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D650E	86	VSD9612MJ01A/B	J7TRA0001			
AJ-D640E	86	VSD9612MJ01A/B	J7TRA0001			

Board: VOUT (F4:VEP83352B)

### Reason for Change

- The following part(s) has (have) been changed for serviceability improvement.
- The following part(s) has (have) been changed for productivity improvement.
- The following part(s) has (have) been changed for standardization.
- The following part(s) has (have) been changed for the safety regulation.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC1053	SN74AS74NS	SN74AS74ANS	IC	1	,
IC1057	SN74AS74NS	SN74AS74ANS	IC	1 1	

Ref. No.	Schematic	c Diagram	P.C. I	Board
}	Page	Area No.	Page	Area No.
IC1053	2-58	B~C-6 (14/16)	3-5	A-3 (C)
IC1057	2-58	C-7~8 (14/16)	3-5	A-2 (C)

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√ VA 8.46 4 VA 8.46 Order No. VSD9711SC633

# **Technical Bulletin**

# Supplement to the Service Manual

**Broadcast Product** 

### Subject: Software Version Up Grades

Please use this supplement t	ogether with the Service Manu	ual as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D650E	87	VSD9612MJ01A/B	J7TRA0001
AJ-D640E	87	VSD9612MJ01A/B	J7TRA0001

Board: Servo (F1:VEP82105B)

System Control (F2:VEP86146E) - AJ-D650 System Control (F2:VEP86146F) - AJ-D640

Front CPU (VEP86256A)

The following software have been up-dated to improve the functioning of the VTR.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC235	VSI2280J	VSI2280K	F1 SERVO PROM Ver. P1.09	1	
IC2	VSI2397C	VSI2397D	F2 SYSTEM PROM Ver. P1.04	1	for AJ-D650
IC2	VSI2400C	VSI2400D	F2 SYSTEM PROM Ver. P1.04	1	for AJ-D640
IC503	VSI2398D	VSI2398E	F2 I/F PROM Ver. P1.05	1	for AJ-D650
IC503	VSI2401D	VSI2401E	F2 I/F PROM Ver. P1.05	1	for AJ-D640
IC702	VSI2399C	VSI2399D	F2 AV PROM Ver. P1.04	1	
IC2	VSI2386A	VSI2386B	FRONT PROMVer.1.02		

### < TEST MENU >

* SERVO	IC235	: F1-P1.09	61BE	* SYSTEM IC2	: F2-P1.04	951C	AJ-D650
		: F2-P1.04		* SYSTEM IC2	: F2-P1.04	OBB0	AJ-D640
* FRONT	IC2	: FP-1.02	6AB2	* I/F 1C503	: F2-P1.05	BFBC	AJ-D650
				* I/E IC503	F2-P1 05	827D	A.I-D640

### \* Note \*

The hardware modification must be required since the following software version. (Servo/P1.08, System Control/P1.02, Interface/P1.04, AV/P1.03, Front/1.01). When the software is up-graded this time, please confirm the P.C. Board version. If the P.C.Board is not modified, the following modification must be performed.

[ H3 EQ Board ]

Please refer to the Technical Bulletin No. VSD9705SC620.

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### < Additional Function >

### < System Control / AV >

1. System H Range select function is introduced on the System SETUP Menu as follows. When the power is turned OFF connecting with Encoder Remote, System H setting value may be shifted. To prevent it, the setting value on the Encoder Remote is always backed up. This function is added on the System SETUP Menu as follows.

	ltem		Setting	
No.	Superimposed Display	No.	Superimposed Display	Description
20	SYS H RANGE	0000	FULL	This adjusts the adjustable range for SYSTEM H during when the
		0001	<u>FINE</u>	Encoder Remote is connected.
				0 ; ±8 μsec (±30 steps)
				1 : - 1.9 to +2.7 μsec (-7 to +10 steps)
				< Note >
	·			If setting operation is performed, the setting value does not return to
				factory (default) setting.

The System Control and AV PROM must be up-graded at the same time as follows. AV: more than P1.04

System Control: more than P1.04,

### < System Control / Interface / Front >

- 1. Channel condition is displayed on the Superimpose.
- 2. INT BB is displayed.
- 3. Warning Message is displayed on the Superimpose.

### < System Control / Interface >

1. VAR/JOG speed select function is introduced on the SETUP Menu connecting with Remote (9P, RS-232C) as follows.

	Item		Setting	
No.	Superimposed Display	No.	Superimposed Display	Description
314	JOG RANGE	0000	- <u>.43 ~ 1</u> -4 ~ +4	This sets the range of the JOG speed during Remote operation.  O: Plays at -0.43 to +1 speed range

The Playback speed range is as follows.

			Playbad	ck Speed	
SETUP Menu	Setting	Fron	t Dial	Remote (9F	P, RS-232C)
		JOG	VAR	JOG	VAR
	0 :43 ~ 1		-0.43 ~ +1		-0.43 ~+1
300 : VAR RANGE	043 ~ 1		(-0.5 ~ +1)		(-0.5 ~ +1)
300 . VAR RANGE	1:-4~+4		-4.1 ~ +4.1	.	-4.1 ~ +4.1
	14~ 74		(-0.5 ~ +1)		(-3.1 ~ +3.1)
·	0 . 42 1			-0.43 ~ +1	
244 - 100 BANCE	0:43 ~ 1	-0.43 ~ +1		(-0.5 ~ +1)	
314 : JOG RANGE	4.4.4	(-0.5 ~ +1)		-4.1 ~ +4.1	
	1 : -4 ~ +4	, ,		(-3.1 ~ +3.1)	
			(	) DV/DVCAM	Playback speed

### < Improvement of Performance >

### < Servo >

- 1. Time code may be frozen during RF AUTO Adjustment mode. It is improved.
- 2. When the SHTL mode is reversed, its response is too late. It is improved.
- 3. When the mode is changed from STOP to PLAY, Quick Start is not performed. It is improved.
- 4. Capstan may overshoot during JOG mode. It is improved.
- 5. Capstan Motor may not rotate when the mode is changed from X0.5 to FF and then X0.5. It is improved.
- 6. Tape damage may occur when the cassette tape lid is not opened and the unit goes to Loading mode. It is improved. AUTO OFF "FRONT\_LOAD\_ERROR" will be displayed.
- 7. Reel Motor may be rushed when the unit goes to Loading mode by Emergency with no cassette tape. It is improved.
- 8. When the mode is changed from STOP to REW and then STOP at the tape end, the tape is over-tension. It is improved. (M and L cassette)

### < AV >

- 1. Audio 4 CH output can be available on the PLAY mode only during DV Playback mode. All mode can be available for Audio 4 CH output.
- 2. Audio may be muted when the Error Rate is high. It is not muted.
- 3. TC OUT (LTC/VITC) is advanced 1 frame to the Video output during EE mode. It is improved.
- 4. Video output may be shifted 1 line when the mode is changed from Play to Edit during Edit mode. It is improved.
- 5. LTC read error may occur during DV Playback mode with BVW-75. It is improved.

### < Interface >

- 1. Communication error between Interface and Front may occur during DV/DVCAM Playback mode. It is improved.
- 2. Preview mode is not accepted with AG-A350 during IN GOTO mode. It is improved.
- 3. When the PREVIEW/AUTO EDIT is performed which Player side setting of [301:IN/OUT DEL] on the User SETUP Menu is AUTO with deck to deck Editing mode, editing is finished after passing the IN point instead of OPEN END. It is improved.
- 4. When the RESET button is pressed during PLAY mode with CTL or INS mode, key function is not efficient. It is improved.
- 5. When the RESET button is pressed on STOP mode during CTL mode on the Recorder side with deck to deck editing mode, the unit does not go to deck to deck editing mode. It is improved.

### < Servo / System Control >

1. When the cassette tape is inserted and the unit goes to Loading mode right after it is ejected, tape position may shift. It is improved.

# **Technical Bulletin**

# Supplement to the Service Manual

**Broadcast Product** 

### Subject: Reduction of Noise on the Multi Burst Output Signal

Please use this supplement	together with the Service Manu	al as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D650E	88	VSD9612MJ01A	K7TRA0001
AJ-D640E	88	VSD9612MJ01A	K7TRA0001

Board: VOUT (F4:VEP83352B)

Symptom: Black vertical noise or dot band noise may appear on the 4MHz ~ 5MHz area of the Multi Burst output signal.

Cause : Timing between clock and data which are supplied to D/A Converter IC is out of specification. So, latch timing failure may occur.

Remedy: To reduce the noise, the following modification is performed.

- 1). Cut the foil of (A) portion on the foil side as shown in figures 1 and 2.
- 2). Connect a jumper wire between pin #15 of IC303 and pin #6 of IC1057 on the foil side as shown in figures 1 and 2.
- 3). After this modification, 7-15. Video Phase Adjustment (VR1050) is required.

### F4 V OUT (14/16) Schematic Diagram

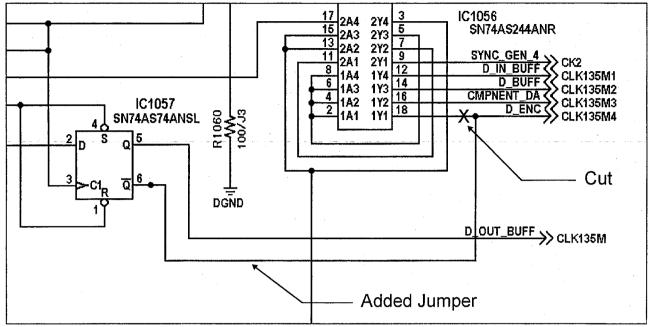


Fig. 1. Page 2-58 (C-7~9)

### F4 V OUT P.C. Board (VEP83352B)

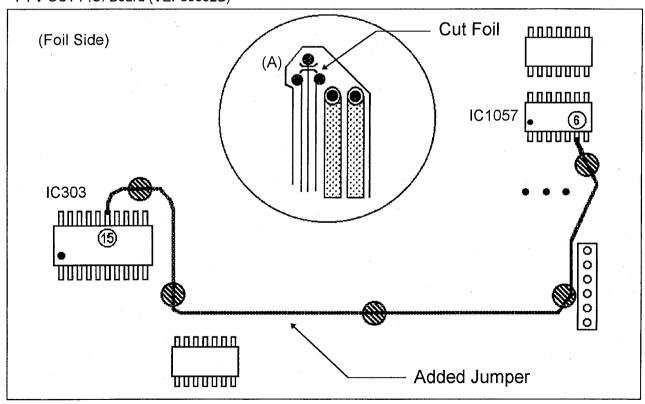


Fig. 2. Page 3-5

# **Technical Bulletin**

# Supplement to the Service Manual

**Broadcast Product** 

## Subject: Reduction of Audio Noise during CUE Audio Playback Mode

Please use this supplement t	together with the Service Man	ual as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D650E	89	VSD9612MJ01A/B	K7TRA0001
AJ-D640E	89	VSD9612MJ01A/B	K7TRA0001

Board: Mother (VEP80A11A)

Symptom: Audio noise may appear during CUE Audio Playback mode.

Cause : Noise may jump into the CUE Playback circuit from the CUE Head.

Remedy: To reduce the audio noise, the following modification is performed.

\* P.C. Board version is VEP80A11A/VJB80A11 without suffix

1). Shield wire is added between 3 lands (near pin #10 of P016) to 3 lands (near pins #1, #2 and #3 of P036) on the foil side as shown in figure 1.

\* P.C. Board version is VEP80A11A-1/VJB80A11-1

1). Shield wire is added between 3 lands (near pin #20 of P016) to 3 lands (near pins #1, #2 and #3 of P036) on the foil side as shown in figure 2.

### Mother Board (VEP80A11A/VJB80A11)

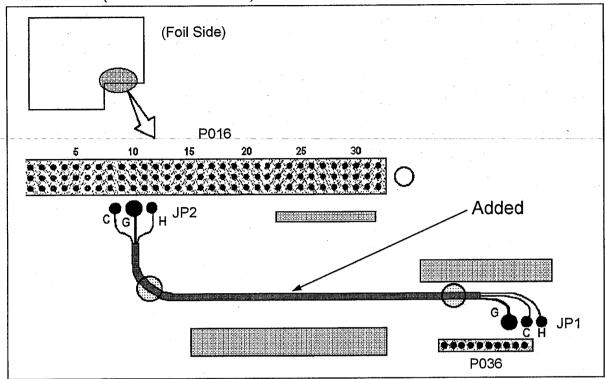


Fig. 1

### Mother Board (VEP80A11A-1/VJB80A11-1)

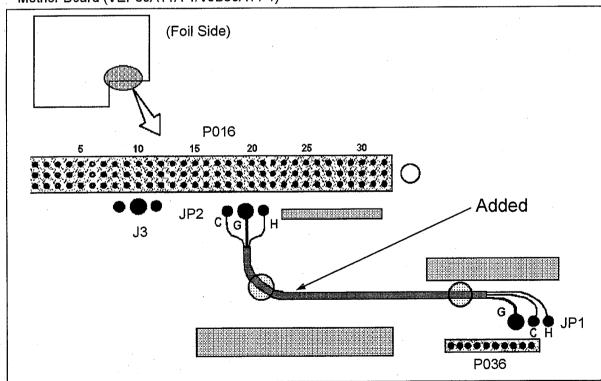


Fig. 2

# Technical Bulletin DVCPRO: AJ-D750E / AJ-D640E / AJ-D650E

AJ-D750E	AJ-D640E	AJ-D650E	Order No.	Subject	Effective from
Technical Guide			VSD9707D901	DVCPRO	
Service Manual			VSD9703MG02A	VSD9703MG02A AJ-D750P/E/EN Ver.1.0 Vol1; AJ-YA750P	
Service Manual			VSD9606M502B	AJ-D750E/EN Vol.2; AJ-YA750P	
	Service Manual	Service Manual	VSD9612MJ01A	AJ-D640E, AJ-D650E Vol1 /	
	Service Manual	Service Manual		AJ-D640E, AJ-D650E Vol 2	
	Service Manual	Service Manual	VSD9612MG01	AJ-YA655P Digital Audio Interface Board	
1			VSD9608SA601	Software Version Up Grade	F6TRA0001
2			VSD9608SA602	VSD9608SA602   Improvement of S/N Ratio at Composite In/Out	F6TRA0001
3			VSD9608Sa603	VSD9608Sa603   Countermeasure for Static Discharge	G6TRA0001
4			VSD9608SA604	VSD9608SA604  Software Version Up Grade	F6TRA0001
5			VSD9608SA605	VSD9608SA605   Correction of Parts Number List	F6TRA0001
9				Software Version Up Grades	G6TRA0001
7				Reduction of Serial Output Jitter Noise	G6TRA0001
8			VSD9609SA608	Software Version Up Grade	H6TRA0001
6			VSD9609SA609	VSD9609SA609   Improvement of Colour Framing Adjustment	H6TRA0001
10			VSD9609SA610	VSD9609SA610   Improvement of Overshoot at Burst Envelope	I6TRA0001
11				Improvement of Burst Distortion	I6TRA0001
12			VSD9609SA612	Improvement of Color Bar Vector	I6TRA0001
13			VSD9610SA613	Improvement of Pr and Pb Frequency Response	G6TRA0001
14			VSD9610SA614	VSD9610SA614   Reduction of Vertical and Horizontal Sags at Video Out	I6TRA0001
15			VSD9610SA615	VSD9610SA615  Software Version Up Grade	I6TRA0001
16			VSD9610SA616	Improvement of Picture under High Temperature	J6TRA0001
17			VSD9610SA617	Software Version Up Grades	J6TRA0001
18			VSD9610SA618	Software Version Up Grades	J6TRA0001
19			VSD9610SA619	VSD9610SA619   Improvement of Tape End/Beginning Detection	J6TRA0001

# Technical Bulletin DVCPRO: AJ-D750E / AJ-D640E / AJ-D650E

evel iperature (-10°C) ty of 3 ature (60°C) between AV ture (60°C)
VSD9612SA625 Improvement of CUE Audio Monitor Output Level VSD9612SA626 Change of IC VSD9701SA627 Improvement of PLL Unlock under Low Temperature (-10°C) VSD9701SA629 Change of ROM Type VSD9701SA629 Change of IC (SRAM) Countermeasure for Electric Power Capability of 3 Countermeasure for Electric Power Capability of 3 Countermeasure for Electric Power Capability of 3 Terminals Regulator IC under High Temperature (60°C) VSD9702SA631 Software Version Up Grades VSD9702SA632-1 Improvement of System H Phase Shift Improvement of System H Phase Shift Improvement of Data Communication error between AV VSD9702SA633 Micon and SBC Micon under High Temperature (60°C) VSD9702SA633 Improvement of Clamp Pulse of Color Signal VSD9702SA634 Improvement of LTC Output Waveform VSD9702SA635 Reduction of Noise from Headphone
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# Technical Bulletin DVCPRO: AJ-D750E / AJ-D640E / AJ-D650E

AJ-D640E AJ-D
12
21   VSD9704SC607   Software Version Up Grades
VSD9704SA651   Correction in Parts Number List
29 VSD9704SC615 Software Version Up Grades
31 VSD9704SA654 Reduction of Block Error Noise
32 VSD9704SA655 Improvement of Record Track Position
VSD9705SA656
VSD9705SA658
35   VSD9705SC619
36 VSD9705SC620 Software Version Up Grades
49 VSD9706SA677 Extension of Maintenance time
50 VSD9708SC622
78 VSD9710SC628 Change of Factory Default Setting od DIP SW 501-8
83   VSD9711SC629   Software Version Up Grade
84   VSD9711SC630   Improvement of Video Output Line Shift
87   VSD9711SC633   Software Version Up Grades
VSD9710SA696   Deletion of Parts
VSD9710SA706 Change of Factory Default Setting od DIP SW 501-8
VSD9711SA712   Software Version Up Grade
VSD9711SA714   Software Version Up Grade

# V18115 Technical Bullet

# Supplement to the Service Manual

**Broadcast Product** 

# Subject: Improvement of Pedestal Level Adjustment

Subject : Improvem	ent of Pedesial Lo		F. 199
Please use this supplement to	ogether with the Service Manu Bulletin No.	Order No. VSD9612MJ01A/B	Effective from L7TRA0001 L7TRA0001
Model No. AJ-D650E AJ-D640E	90	VSD9612MJ01A/B	
	Board: V OU	he nerforme	ed correctly on the New F4

Symptom: Pedestal Level Adjustment in the V blanking area cannot be performed correctly on the New F4

Board. (VEP83352B-4/VJB83352-2)

: Due to the poor margin of the variable resistor value. Cause

: To improve the Pedestal Level Adjustment, resistors R374and R375 are changed from 1/16W, 10KΩ

to 1/16W,  $5.6K\Omega$  on the component side.

Remedy: To improve the to 1/16W, 5.6KΩ on the component side.	Pcs Remarks
Part Number         Part Name & Descriptions           Ref. No.         Original Part No.         New Part No.         M. RESISTOR CH 1/16W 5.6K           R374, 375         ERJ3GEYJ103         ERJ3GEYJ562         M. RESISTOR CH 1/16W 5.6K           Ref. No.         Schematic Diagram           Page         Area No.           Page         E-12 (5/16)           2-49         E-12 (5/16)           R374         2-49         E-12 (5/16)	PCS

# **Technical Bulletin**

# Supplement to the Service Manual

**Broadcast Product** 

## Subject: Introduction of New V IN P.C. Board

ease use this supplement together with the Service Manual as follows :			
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	116	VSD9606M502A/B	L7TRB0001
AJ-D650E	91	VSD9612MJ01A/B	L7TRA0001
AJ-D640E	91	VSD9612MJ01A/B	L7TRA0001

Board: V IN (F6:VEP83398A)

To improve the manufacturing productivity and introduce the new function, a new F6 V IN P.C. Board (VEP83398A / VJB83398) is introduced. This Technical Bulletin contains the following items.

- 1). Electrical Adjustment Procedure
- 2). Parts List
- 3). Schematic Diagram
- 4). P.C. Board Layout

According to this change, the following modification is performed.

- 1). Standardization of P.C. Board.
- 2). A/D Converter for the color is changed.
- 3). V Blanking circuit is added. (for AJ-D650/AJ-D640)

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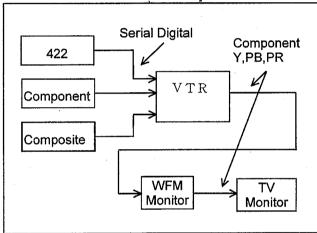
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### 8. VIN P.C.Board

### 8-1. Preparation for Video In Adjustment

BOARD	V IN (F6)
SPEC.	
TEST	
ADJUST	
INPUT	
MODE	
TAPE	
M.EQ	

- 1. Connect the equipment as shown in the figure.
- 2. V IN P.C.Board adjustment should be performed after the V out P.C.Board adjustment.



# 8-2. Component 13.5MHz VCO Adjustment

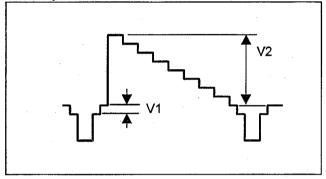
BOARD	V IN (F6)
SPEC.	0 ± 0.1V
TEST	TP553
ADJUST	VL551, VR552
INPUT	ANALOG Y, PB, PR 100% Color Bar
MODE	E-E
TAPE	
M.EQ	Oscilloscope

- 1. Set VR552 to the center.
- 2. First, turn VL551 CCW and adjust VR552 so that the DC Voltage is 0  $\,\pm\,$  0.1V.

### 8-3. Component Y Level Adjustment

BOARD	V IN (F6)	
SPEC.	$V1 = 0 \pm 7 \text{mV}, V2 = 700 \pm 7 \text{mV}$	
TEST	Y out	
ADJUST	VR652, VR651	
INPUT	ANALOG Y, PB, PR, 100% Color Bar	
MODE	E-E	
TAPE		
M.EQ	WFM	

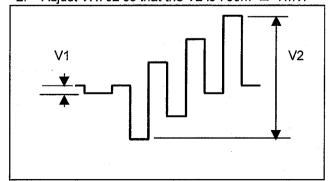
- 1. Adjust VR652 so that the V1 is 0V  $\pm$  7mV.
- 2. Adjust VR651 so that the V2 is 700mV  $\pm$  7mV.



### 8-4. Component PB Level Adjustment

0 00.	ilpolitoliti D Edvol Adjudullont
BOARD	V IN (F6)
SPEC.	$V1 = 0 \pm 7 \text{mV}, V2 = 700 \pm 7 \text{mV}$
TEST	PB out
ADJUST	VR703, VR702
INPUT	ANALOG Y, PB, PR 100% Color Bar
MODE	E-E
TAPE	
M.EQ	WFM

- 1. Adjust VR703 so that the V1 is  $0 \pm 7$ mV.
- 2. Adjust VR702 so that the V2 is 700m  $\pm$  7mV.



### 8-5. Component PR Level Adjustment

BOARD	V IN (F6)
SPEC.	$V1 = 0 \pm 7 \text{mV}, V2 = 700 \pm 7 \text{mV}$
TEST	PR out
ADJUST	VR753, VR752
INPUT	ANALOG Y, PB, PR 100% Color Bar
MODE	EE
TAPE	
M.EQ	WFM

20 nsec.

8-7. Composite Input Level Adjustment

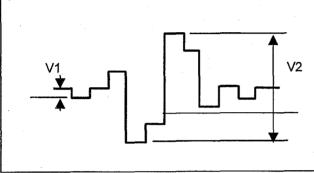
V IN (F6)

 $V=1.6 \pm 0.02V$ 

TP651, TP301

VR301, VR251

- 1. Adjust VR753 so that the V1 is  $0 \pm 7$ mV.
- 2. Adjust VR752 so that the V2 is 700  $\pm$  7mV.



# MODE E-E

BOARD

SPEC.

TEST

**ADJUST** 

INPUT

M.EQ Oscilloscope
 Observe TP651 and adjust VR301 at the point where the sync tip just begin to saturate.

COMPOSITE 100% Color Bar

2. Adjust VR251 so that the voltage at TP301 is  $1.6 \pm 0.02$ V.

TP651
Just begin to saturate
 TP301 V

### 8-6. Component Y/C Timing Adjustment

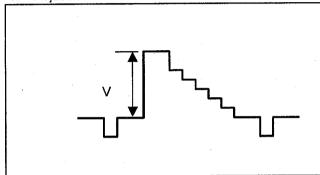
BOARD	V IN (F6)
SPEC.	0 ± 10n sec
TEST	Y, PB, PR out
ADJUST	PB TIM VR701, PR-TIM VR751
INPUT	ANALOG Y, PB, PR BOWTIE
MODE	E-E
TAPE	
M.EQ	WFM

- 1. Adjust VR701 so that the minimum level of the Y/PB timing signal is  $\pm$  10nsec against the center scale.
- 2. Adjust VR751 so that the minimum level of the Y/PR timing signal is  $\pm$  10nsec against the center scale.

8-8. Composite Y Level Adjustment

<del></del>	
BOARD	V IN (F6)
SPEC.	V = 700 ± 7mV
TEST	Y out
ADJUST	VR352
INPUT	COMPOSITE 100% Color Bar
MODE	E-E
TAPE	
M.EQ	WFM

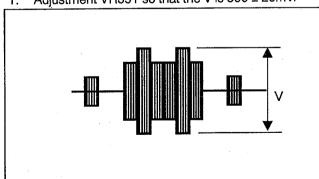
1. Adjustment VR352 so that the V is  $700 \pm 7$ mV.



8-9. Composite Color Level Adjustment

BOARD	V IN (F6)
SPEC.	V = 500 ± 20mVp-p
TEST	TP451
ADJUST	VR351
INPUT	COMPOSITE 100% Color Bar
MODE	EE ·
TAPE	
M.EQ	WFM

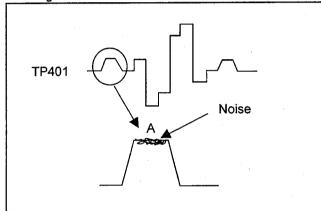
1. Adjustment VR351 so that the V is  $500 \pm 20$ mV.



8-10. Composite Color Demodulation Adjustment

	,
BOARD	V IN (F6)
SPEC.	See Figure Below.
TEST	TP401
ADJUST	VR408, VR409
INPUT	COMPOSITE 100% Color Bar
MODE	EE
TAPE	
M.EQ	Oscilloscope

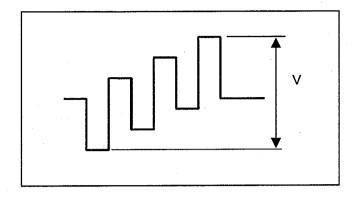
- 1. Adjust VR408 so that the waveform is as shown in figure (no double image).
- Adjust VR409 so that the noise portion is positioned on the top of A portion as shown in figure.



8-11. Composite PB Level Adjustment

V IN (F6)
V = 700 ± 7mV
PB out
VR460
COMPOSITE 100% Color Bar
E-E
WFM

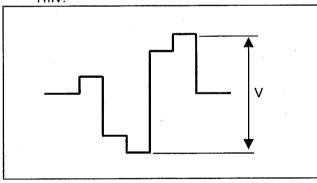
1. Adjustment VR460 so that the V is  $700\text{mV} \pm 7\text{mV}$ .



### 8-12. Composite PR Level Adjustment

V IN (F6)
V = 486 ± 7mV
PR out
VR464
COMPOSITE 100% Color Bar
E-E
WFM

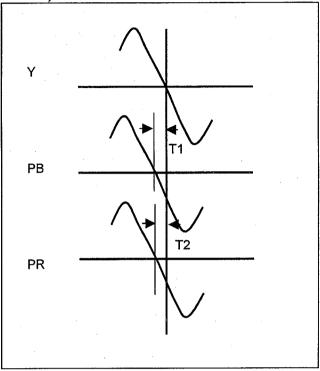
1. Adjustment VR464 so that the V is 486mV  $\pm$  7mV.



8-13. Composite YC Timing
Adjustment

Aujusunent	
BOARD	V IN (F6)
SPEC.	$T1 = 0 \pm 10$ nsec $T2 = 0 \pm 10$ nsec
TEST	Y PB PR out
ADJUST	PB TIM:VR459, PR TIM:VR463
INPUT	PULSE & BAR
MODE	E-E
TAPE	
M.EQ	WFM

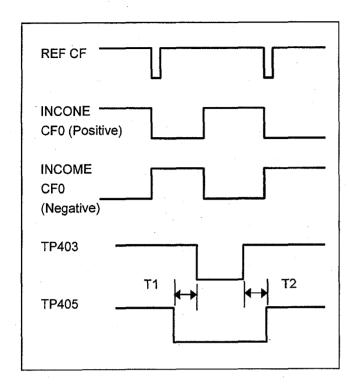
- 1. Set the WFM in the DIFF MODE.
- 2. Observe the MOD 12.5T portion.
- 3. Adjust VR459 so that the T1 is  $0 \pm 10$ n sec.
- 1. Adjust VR463 so that the T2 is  $0 \pm 10$ n sec.



8-14. Composite SCH Detection Adjustment

Aujustilielle	
BOARD	V IN (F6)
SPEC.	T1-T2 = ± 0.5m sec
TEST	INCOME CF, PIN 3 of IC502 TP403, TP405
ADJUST	VR407
INPUT	COMPOSITE 100%" color bar
	CF PULSE
MODE	E-E
TAPE	
M.EQ	Oscilloscope

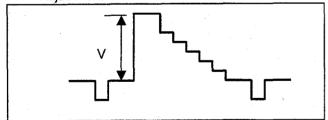
- 1. Set VR407 fully CCW.
- 2. Slowly rotate VR407 CW and set the position where the CF0 pulse just changes from the positive to negative phase.
- 3. Connect the scope CH1 to TP403 and CH2 to TP405.
- 4. Slowly adjust VR407 CW so that T1 and T2 are equal.



### 8-15. Y/C Y Level Adjustment

BOARD	V IN (F6)
SPEC.	$V = 700 \pm 7 \text{mV}$
TEST	COMPONENT Y out
ADJUST	VR354
INPUT	COMPOSITE 100% Color Bar
MODE	E-E
TAPE	
M.EQ	WFM

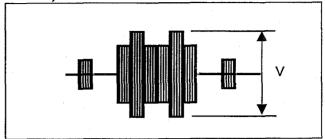
1. Adjustment VR354 so that the V is 700 ± 7mV.



### 8-16. Y/C Color Level Adjustment

SPEC. V = TEST TP4	N (F6) = 500 ± 20mVp-p
TEST TP4	= 500 ± 20mVp-p
AD HIGT VD	451
ADJUST VIC	353
INPUT CO	MPOSITE 100% Color Bar
MODE E-E	
TAPE	-
M.EQ WF	:74

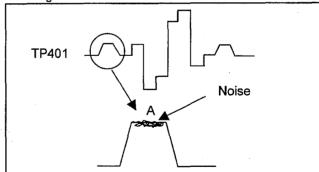
1. Adjustment VR353 so that the V is  $500 \pm 20$ mV.



# 8-17. Y/C Color Demodulation Adjustment

BOARD	V IN (F6)
SPEC.	See Figure Below.
TEST	TP401
ADJUST	VR410, VR409
INPUT	COMPOSITE 100% Color Bar
MODE	E-E
TAPE	
M.EQ	Oscilloscope

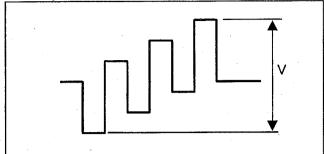
- 1. Adjust VR410 so that the waveform is as shown in figure (no double image).
- Adjust VR409 so that the noise portion is positioned on the top of A portion as shown in figure.



### 8-18. Y/C PB Level Adjustment

BOARD	V IN (F6)
SPEC.	V = 700 ± 7mV
TEST	PB out
ADJUST	VR462
INPUT	COMPOSITE 100% Color Bar
MODE	EE
TAPE	
M.EQ	WFM

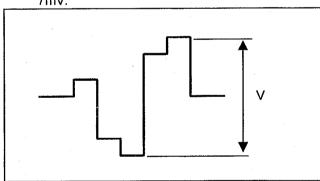
1. Adjustment VR462 so that the V is  $700\text{mV} \pm 7\text{mV}$ .



8-19. Y/C PR Level Adjustment

BOARD	V IN (F6)
SPEC.	V=700 ± 7mV
TEST	PR out
ADJUST	VR466
INPUT	COMPOSITE 100% Color Bar
MODE	E-E
TAPE	
M.EQ	WFM

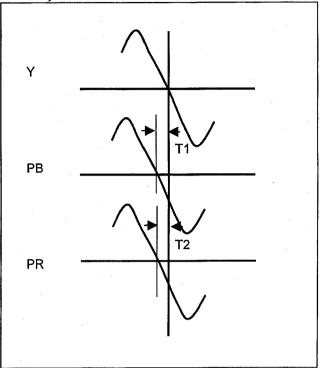
1. Adjustment VR466 so that the V is 700mV  $\pm$  7mV.



8-20. Y/C YC Timing Adjustment

<u> </u>	, o . o . i i i i i i g . i a ja o a i i o i i i
BOARD	V IN (F6)
SPEC.	$T1 = 0 \pm 10$ nsec $T2 = 0 \pm 10$ nsec
TEST	Y PB PR out
ADJUST	PB TIM:VR461, PR TIM:VR465
INPUT	PULSE & BAR
MODE	EE
TAPE	
M.EQ	WFM

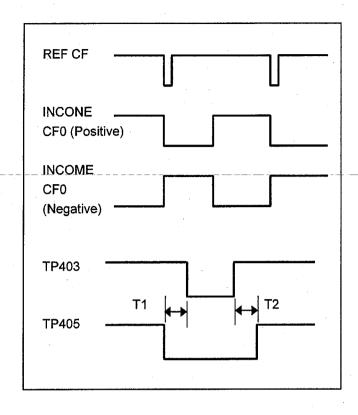
- Set the WFM in the DIFF MODE.
- 2. Observe the MOD 12.5T portion.
- 3. Adjust VR461 so that the T1 is  $0 \pm 10$ n sec.
- 1. Adjust VR465 so that the T2 is  $0 \pm 10$ n sec.



8-21. Y/C SCH Detection Adjustment

, tajaotinone	
BOARD	V IN (F6)
SPEC.	T1-T2= ± 0.5mS
TEST	INCOME CF, PIN 8C of P2,
	TP403, TP405
ADJUST	VR406
INPUT	COMPOSITE 100%" color bar
	CF PULSE
MODE	E-E
TAPE	
M.EQ	Oscilloscope

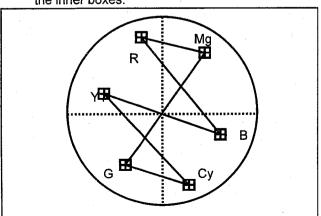
- 1. Set VR406 fully CCW.
- 2. Slowly rotate VR406 CW and set the position where the CF0 pulse just changes from the positive to negative phase.
- 3. Connect the scope CH1 to TP403 and CH2 to TP405.
- 4. Slowly adjust VR406 CW so that T1 and T2 are equal.



8-22. Composite Vector Adjustment

BOARD	V IN (F6)					
SPEC. All Vector Dots are in Inner Boxes						
TEST	COMPOSITE out					
ADJUST	VR409					
INPUT	COMPOSITE 100% Color Bar					
MODE	E-E					
TAPE						
M.EQ	WFM					

- 1. Set the vector scope in the NTSC display mode.
- 2. Adjustment VR409 so that the all vector dots are in the inner boxes.



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No. C400	Part No.	Part Name & Descri C. CAPACITOR CH 25V	ption 0.1U		
		IN D. G. DOLDD	٠.	(DTL)			C. CAPACITOR CH 50V	10P	<del>}</del>	
	VEP83398A	F8 V IN P. C. BOARD	-	(RTL)			C. CAPACITOR CH 50V	33P	1	
							C. CAPACITOR CH 25V	0. 10		
C51-54	ECHNIE1047EN	C. CAPACITOR CH 25V 0.1U	4				C. CAPACITOR CH 25V	0. 1U	1	
		E. CAPACITOR CH 18V 47U	1				C. CAPACITOR CH 25V	0.10	4	
		E. CAPACITOR CH6. 3V 33U	1				C. CAPACITOR CH 50V	100P	1	
		E. CAPACITOR CH 16V 47U	1		C415, 16	ECUM1E104ZFN	C. CAPACITOR CH 25V	0. 1U	2	
		C. CAPACITOR CH 25V 0.1U	7		C417	ECEV1HV4R7Q	E. CAPACITOR CH 50V	4. 7U	1	
		E. CAPACITOR CH 16V 47U	1		C418-20	ECEVOJV330Q	E. CAPACITOR CH6. 3V	330	3	
		E, CAPACITOR-CH6. 3V 33U	_1		C421-23	ECUM1E104ZFN	C. CAPACITOR_CH_25V	0.1U	_3	
	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C424	ECUM1H121JCN	C. CAPACITOR CH 50V	120P	1	
		C. CAPACITOR CH 25V 0.1U	3		C425	ECUM1H271JCN	C. CAPACITOR CH 50V	270P	1	
		C. CAPACITOR CH 25V 0.1U	8		C426	ECUM1E104ZFN	C. CAPACITOR CH 25V	0.10	1	
		C. CAPACITOR CH 25V 0.1U	1					0. 01U	2	
	ECUM1E104ZFN	C, CAPACITOR CH 25V 0.1U	9		C429	ECUM1H102JCN	C. CAPACITOR CH 50V	1000P	1	
C160	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1		C430	ECUM1E104ZFN	C. CAPACITOR CH 25V	0, †U	1	
C201~08	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	8		C431		C. CAPACITOR CH 50V	270P	1	
C212-15	ECUMTE1 04ZFN	C. CAPACITOR CH 25V 0. 1U	4		C432			0. 47U	1	
C251~54	ECEV1CV1000	E. CAPACITOR CH 16V 10U	4		C433		C. CAPACITOR CH 25V	0.10	1	
		C, CAPACITOR CH 25V 0.1U	в		C434		C. CAPACITOR CH 50V	560P	1	
		C. CAPACITOR CH 25V 0.1U	1				C. CAPACITOR CH 25V	0. 10	5	
		C. CAPACITOR CH 25V 0.1U	2				C. CAPACITOR CH 50V	7P	1	
		E. CAPACITOR CH 25V 4. 7U	1		ļ	<del></del>	C. CAPACITOR CH 50V	470P	1	
		C. CAPACITOR CH 25V 0.1U	4		]		E. CAPACITOR CH6. 3V	330	1	
		E. CAPACITOR CH6. 3V 33U	2				E. CAPACITOR CH 16V	100	+	
		C. CAPACITOR CH 25V 0.1U	6		C456-60		C. CAPACITOR CH 25V	0. 10	4	
		C. CAPACITOR CH 50V 39P	1				C. CAPACITOR CH 25V	0. 1U 27P	1	
		C. CAPACITOR CH 50V 180P	1		C465 C466-70		C. CAPACITOR CH 50V C. CAPACITOR CH 25V	0, 10	5	
		C. CAPACITOR CH 25V 0. 1U	2					0. 01U	-	
		C. CAPACITOR CH 50V 8P	1		C471, 72		C. CAPACITOR CH 50V	22P	1	<del>                                     </del>
		E. CAPACITOR CH 16V 47U	1		C474		C. CAPACITOR CH 25V	0, 10	'i	
		C. CAPACITOR CH 25V 0. 1U	1				G. CAPACITOR CH 50V	18P	1	ļ
		E. CAPACITOR CH6. 3V 33U	<u> </u>				E. CAPACITOR CH 16V	47U	1	<del> </del>
		C. CAPACITOR CH 50V 0.01U	1		C477		C. CAPACITOR CH 50V	18P	-	<del></del>
		C. CAPACITOR CH 50V 82P	2				E. CAPACITOR CH 16V	470	3	
		C. CAPACITOR CH 50V 0.01U E. CAPACITOR CH 50V 1U	1				G. CAPACITOR CH 50V	4P	2	
		E. CAPACITOR CH 50V 1U C. CAPACITOR CH 50V 100P	1		C483, 84			0. 010	2	
		C. CAPACITOR CH 25V 0.1U	2				C. CAPACITOR CH 50V	68P	2	
		E. CAPACITOR CH6. 3V 33U	4		C487-90		C. CAPACITOR CH 50V	8P	- 4	
		E. CAPACITOR CH 16V 47U	1		C491, 92			0. 01U	2	
		C. CAPACITOR CH 25V 0.1U	4				C. CAPACITOR CH 50V	47P	4	
		C. CAPACITOR CH 50V 47P	1		C497-00			0. 01U	4	
		C. CAPACITOR CH 25V 0.1U	1		C501, 02	ECEVOJV3300	E. CAPACITOR CHB. 3V	330	2	
		C. CAPACITOR CH 25V 0.1U	1		C503-06	ECUM1H103ZFN	C. CAPACITOR CH 50V	0. 01U	4	
		C. CAPACITOR CH 25V 0.1U	<del></del>		C510	ECEV1CV470Q	E. CAPACITOR CH 16V	470	1	
C322		C. CAPACITOR CH 50V 18P	1		C511-15	ECUM1E104ZFN	C. CAPACITOR CH 25V	0, 10	5	
		C. CAPACITOR CH 25V 0.1U	3		C516	ECUM1H270JCN	C. CAPACITOR CH 50V	27P	1	
		E. CAPACITOR CH8. 3V 33U	1		0517	ECUM1H101JCN	C. CAPACITOR CH 50V	100P	1	
		C. CAPACITOR CH 25V 0. 1U	<del></del>		C518, 19	ECUM1E104ZFN	C. CAPACITOR CH 25V	0.10	2	
C330		E. CAPACITOR CH6. 3V 33U	1		C520, 21	ECEVOJV3300	E. CAPACITOR CH6. 3V	330	-	
		C. CAPACITOR CH 25V 0.1U	3		C523		E. CAPACITOR CH 50V	10		
		C. CAPACITOR CH 50V 270P	1					0. 01U		
		C. CAPACITOR CH 25V 0.1U	4			<del></del>	C. CAPACITOR CH 50V	82P	<del> </del>	<del>                                     </del>
		E. CAPACITOR CH6. 3V 33U	3			<del></del>		0. 01U	_	
		C. CAPACITOR CH 25V 0.1U	4		0530	<del> </del>		0. 01U	<del></del>	
		C. CAPACITOR CH 25V 0.1U	2			·	C. CAPACITOR CH 25V	0.10	-	
C365, 66	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	2				E. CAPACITOR CH6, 3V	330	-	
		C. CAPACITOR CH 25V 0.1U	8		C553		C. CAPACITOR CH 50V	47P		
		C. CAPACITOR CH 25V 0.1U			C554		<del></del>	1000P	1	
C380		C. CAPACITOR CH 50V 39P	├			1	C. CAPACITOR CH 25V	0.10	-	
C381		C. CAPACITOR CH 25V 0.1U	₩-		0557		C. CAPACITOR CH 50V	47P	-	
C383		C. CAPACITOR CH 50V 47P	-				C. CAPACITOR CH 25V	0.10		
		C. CAPACITOR CH 25V 0.1U	1		C560		C. CAPACITOR CH 50V	100P	<del>-</del>	
		C. CAPACITOR CH 25V 0.1U	1		C581			1000P	1	
		C. CAPACITOR CH 25V 0.1U			C562		C. CAPACITOR CH 50V	680P	1	
		C. CAPACITOR CH 50V 33P	1		C563		C. CAPACITOR CH 25V	0.10	+	
		C. CAPACITOR CH 50V 270P	-		C564	<del></del>	C. CAPACITOR CH 50V	270P	1	
C394		C. CAPACITOR CH 50V 22P	1		C565	<del> </del>	C. CAPACITOR CH 50V	470P	1	
C395		C. CAPACITOR CH 50V 68P	-1		C586		C. CAPACITOR CH 25V	0.10	-	<del></del>
	<del> </del>	C. CAPACITOR CH 50V 7P	_		C567		C. CAPACITOR CH 50V	82P	1	
	ICCUMPETOATEN	C. CAPACITOR CH 25V 0.1U	1		C568		C. CAPACITOR CH 50V C. CAPACITOR CH 25V	0. 1U	2	
C397										
C397 C398	ECUM1H121JCN	C. CAPACITOR CH 50V 120P	1	·	<del></del>					
C396 C397 C398 C399	ECUM1H121JCN	C. CAPACITOR CH 50V 120P C. CAPACITOR CH 50V 10P	1		C571		C. CAPACITOR CH 50V			

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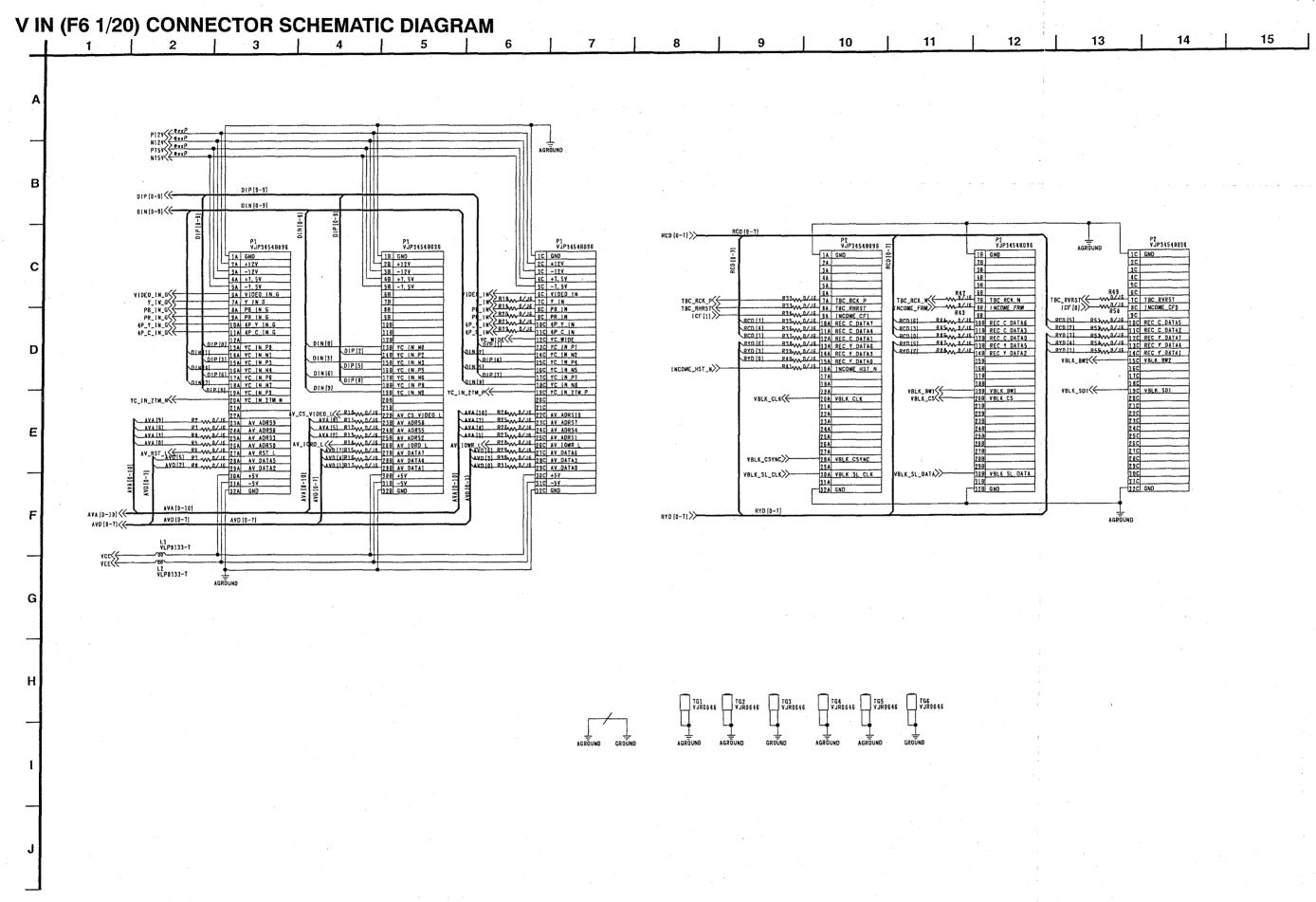
Part No.   Part No.	VEP83			_			I .		T	_	
COUNTY   CONTINUE C				Pcs	Remarks	Ref. No.					Remarks
CONTROLLEGATE   CANADITION OF SET   CANADITI	C572	ECUM1E104ZFN		—					-+	_	
Commissional Convention of the Vision 1   1   1   1   1   1   1   1   1   1	C573	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1		0775	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1	비	_1	
Control   Cont	C576	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1		C776	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1	U	1	
CREATIFICATION   COMPATITION OF SEVE 1   1000   1	C578	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1		C778	ECUM1E104ZFN	C. CAPACITOR CH 25V 0. 1	ម	1	
EXEMPTION COLOR   COMPATITION OF SEVE 1000   1	C579, 80	ECEV1HN0100	E, CAPACITOR CH 50V 1U	2		C779	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1	U	1	
CREATION   CREATION   CAMPATION OF A 19				+					υ	1	
Control   Cont					<del></del>				_	1	
CECAL-PROPERTY   CAMPATITIC DIES N. 1939   1   COMMAN				<del>-</del> -							
Control   Cont				-					-+	_	
SECHANDRON   COMPATION OF SY 0.10   3   0.005-00   0.000-0000   0.000-000   0.000-000   0.000-000   0.000-000   0.000-000   0.000-000-000   0.000-000-000   0.000-000-000   0.000-000-000   0.000-000-000   0.000-000-000   0.000-000-000   0.000-000-000   0.000-000-000-000-000-000-000-000-000-0				-					-+		
	C652-54	ECUM1E104ZFN		+					-		
SETTING   DECEMBER   CAMPATTER OR SY   SY   2	C655	ECEA07A3300	E. CAPACITOR CH6. 3V 33U	1		C788	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1	U	1	
6998, 02 CREMINIORAND COMPATTOR OR 3NY 301 2 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6998, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6999, 12 CREMINIORAND COMPATTOR OR 3NY 0.10 1 6999, 12 CREMINIORAND COMPATTOR COMPATTOR OR 3NY 0.10 1 6999, 12 CREMINIORAND COMPATTOR COMPATTOR OR 3NY 0.10 1 6999, 12 CREMINIORAND COMPATTOR COMPATTOR OR 3NY 0.10 1 6999, 12 CREMINIORAND COMPATTOR	C656-58	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	3		C789	ECEA07A3300	E. CAPACITOR CH6. 3V 33	υl	1	
CORNECTION   CONTINUE CONTIN		ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	2		C790	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1	U	1	
Control   Cont				1 2		C792	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1	U	1	·
BESSET   BESSET STATE   CAPACITOR OF 129 0 0 10 1   1   1   1   1   1   1   1									u l	10	
									_		
DEATH   DEAT									-	_	
ESPATH   DEPARTMENT OF CAPACITICS CHI SEY   1   1   2023   25   25   25   25   26   26   26   26	C667	ECUM1E104ZFN		+							
	C668, 69	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	2		C858-67	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1	비	10	
GENERAL TOWNSON   COMPANTION OF 129 W   1	C671	ECUM1H01OCCN	C. CAPACITOR CH 50V 1P	1	,				┙		
0975   CAMPATON COMPANION COLOR 19	C672	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1		D251, 52	MA152K	DIODE	_[	2	·
				-					7	1	
Description   Control Force				-					7		
Description   Committee   Co									+		
Design   Comparison   Compari				+					+	_	
BORNESSON   BORNESSON   CAPACITOR CH 207 0   47   1   1   1   1   1   1   1   1   1				-		<del></del>			+	<del></del>	
Description	C678	ECUM1H331JCN		-					4	<u></u>	
Dest: 52   CEPNANDSON   C. CAPACITICS (CHE. W) 330   1   Dest: 52   Dest: 5	C679	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1		D552		DIODE		1	
Dest   Dest	C680, 81	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2		D553	MA152WA	DIODE	_[	_ī	
D001-02   CHAPMET CAPACITOR OF 257   0.10   3   D701-02   MAISSX   D00E   2   CREATION CONTROL CAPACITOR OF 277   0.10   3   D701-02   MAISSX   D00E   2   CREATION CONTROL CAPACITOR OF 277   0.10   3   D701-02   CREATION CONTROL CAPACITOR OF 277   0.10   3   F1.5.52   W.F1016A223   F1.TER   1   CREATION CONTROL CAPACITOR OF 277   0.10   1   F1.501   W.F1016A223   F1.TER   1   CREATION CONTROL CAPACITOR OF 277   0.10   1   F1.501   W.F1016A223   F1.TER   1   CREATION CONTROL CAPACITOR OF 277   0.10   1   F1.501   W.F1016A223   F1.TER   1   CREATION CONTROL CAPACITOR OF 277   0.10   1   F1.501   W.F1016A223   F1.TER   1   CREATION CONTROL CAPACITOR OF 277   0.10   1   F1.501   W.F1016A223   F1.TER   1   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR OF 277   0.10   CREATION CONTROL CAPACITOR CAPACIT				-					1	2	
Description				+					+		
CORPTON   COMMETCHAPPY   CAPACITOR CH 29Y 0.11   0   1   F.1.5.1.52   W.F.10164222 FILTER   2   1   1   1   1   1   1   1   1   1				-					┪		
Prof.   Commonwealth   Commonwealth   Prof.   Commonwealth   Prof.   Commonwealth   Prof.   Commonwealth   Prof.   Commonwealth   Prof.   Commonwealth   Prof.   Commonwealth   Prof.   Commonwealth   Prof.						D/31, 32	IMAI JZK	DIODE	+		
CONTROL   CONTROL   C. CAPACITOR OF 18Y   10U   1	C687-89								4		
1707-05   COLMIETORATE   C. CAPACITICE (1) 25   0.10   3	C701	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1		FL51, 52	VLF1016A223	FILTER	4	2	
COTON-100    COMPACTION CHILD NO.   330	C702	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1		FL251	VLF1294	FILTER		1	
COUNTY   C	0703-05	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	3		FL301	VLF1016A223	FILTER		1	
COTO-00  EQUINITIONATING CAPACITOR OF 25V 0.10   3   FL551, 52   VLF1016A223   FILTER   2   COTO-01   ECEVALVASOD   E. CAPACITOR OFF 30V BP 1   FL551   FL552   VLF1016A223   FILTER   1   COTO-01   FL552   VLF1016A223   FILTER   1   COTO-01   FL552   VLF1016A223   FILTER   1   COTO-01   FL552   VLF1016A223   FILTER   1   COTO-01   FL552   VLF1016A223   FILTER   1   COTO-01   FL552   VLF1016A223   FILTER   1   COTO-01   FL552   VLF1016A223   FILTER   1   COTO-01   FL552   VLF1016A223   FILTER   1   COTO-01   FL552   VLF1016A223   FILTER   1   COTO-01   FL552   VLF1016A223   FILTER   1   COTO-01   FL552   VLF1016A223   FILTER   1   COTO-01   FL552   VLF1016A223   FILTER   2   COTO-01   FL				1		FL351	VLF1016A223	FILTER	╗	1	
Company   Comp				_					7	,	
FL652   LEINHIBODOCK   CAPACITOR CH SDV   P   1				-					+		
C713   EDIMIE ICAZEN   C.CAPACITOR CH 25V   0.1U   1   FL701   V.F1285   FL1ER   1   1   1   1   1   1   1   1   1									+	÷	
Color	C712			-					-		
C715   ECUMIETO   CAPACITOR CH   257   0. 1U   1	C713			-					4		·
OTIE_11   EGY_U_VISSOD   E. CAPACITOR CHE. 3V   33U   2	C714	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1		FL751	VLF1295	FILTER		<u> </u>	
C718   ECUMIETOAZEN   C. CAPACITOR CH 25V   O. 1U   T   T   T   T   T   T   T   T   T	C715	ECUM1E104ZFN	C. CAPACITOR CH 25V . 0.1U	1		FL801, 02	VLF1016A223	FILTER	$\perp$	2	
C718	C716, 17	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2		FL851, 52	VLF1016A223	FILTER		2	
C719   ECEVIGVATOD   E. CAPACITOR CH 18V   47U   1   1   1   1   1   1   1   1   1				1					┑		
C720   ECUMIETOAZEN   C. CAPACITOR CH 25V   0.1U   1   1   1   1   1   1   1   1   1						1051	AN78N09	IC	7	1	
C721   ECEVIDV1000   E. CAPACITOR CH 16V   10U   1   10C3   AN79N09   IC   I   1   1   1   1   1   1   1   1   1									+	_	
C722   EGEVOLV3300   E. CAPACITOR CH6.3V   33U   1				-					+		
C728   ECUMIE   COMPACTION CR   25V   0. 1U   1				-					+	<u> </u>	
C726   ECUXIE10ARSN   C. CAPACITOR CH 25V   0.10   1   1   1   1   1   1   1   1   1	C722	ECEVOJV3300		_					4	_	
C728   ECUMIETO 4ZFN   C. CAPACITOR CH 2SV   O. TU   1   1   1   1   1   1   1   1   1	C725	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1		10101-03	MC10H125M		1	3	
C729   ECUNTETO4KBN   C. CAPACITOR CH 25V   O. 1U   1   1   1   1   1   1   1   1   1	C726	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1		10107	MC10H125M	IC	$\perp$	1	
C729   ECUXIEIO4KBN   C. CAPACITOR CH 25V   0.1U   1   1   1   1   1   1   1   1   1	C728	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1		10110	74F244SJ	IC	_[	1	
C130   EQUMIFICAÇEN   C. CAPACITOR CH 25V   0.1U   1   1   1   1   1   1   1   1   1		ļ					SN74S1051NS	IC	T	2	
C731   ECUMIHS3I JON   C. CAPACITOR CH 50V   330P   1	<del></del>								7		
C732   ECUMIHATOLON   C. CAPACITOR CH 50V   47P   1		<del></del>		-					+		
C734 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C738 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C738 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1  C739 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 3  C740-42 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 3  C751 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 3  C752 ECEVICV100Q E. CAPACITOR CH 16V 10U 1  C753-55 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 3  C756 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 3  C757-59 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 3  C756 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 3  C757-59 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 3  C758 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 3  C759 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 3  C759 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 3  C759 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 3  C759 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 3  C750 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 3  C750 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 3  C750 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 3  C750 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 1  C760 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH108000N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH108000N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH108000N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH10800N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH10800N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH10800N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH10800N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C760 ECUMIH1080N C. CAPACITOR CH 25V 0.1U 1  C770 ECUMIH1080N C. CAPACITOR CH 25V 0				+					+		
C738   ECUMIE104ZFN   C. CAPACITOR CH 25V   O. 1U   1   1   1   1   1   1   1   1   1				+					+		
C738 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1 1 1C203 T74HCT541AF IC 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									4	_	
C739	C736			+					4		
C739	C738	ECUM1E104ZFN	C. CAPACITOR CH 25V 0. 1U	1 1		10203	T74HCT541AF	IC	╛	_1	
C740-42   ECUMIE104ZFN   C. CAPACITOR CH 25V   0.1U   3		ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	1		10204	T74HCT374AF	IC	T	1	
C751   ECEVOLV3300   E. CAPACITOR CH6.3V   33U   1   1   1   1   1   1   1   1   1		<del> </del>		+		10205	74F574SJ	IC	1	1	
C752				+					1		
C753-55 EQUMITEIO4ZFN C. CAPACITOR CH 25V 0.1U 3				+					+	÷	
C756 ECEVOLV3300 E. CAPACITOR CH6.3V 33U 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				+					+		
C757-59 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 3				+-					4	_	
C760, 61 ECEVOJV3300 E. CAPACITOR CH6. 3V 33U 2				+					4		
C762   ECUMIHOBODON   C. CAPACITOR CH 50V   SP   1	C757-59	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	3		1 C255	NJM78L05UA	IC	$\perp$	1	
C762   ECUMIHOBODON   C. CAPACITOR CH 50V   8P   1	C760. 61	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	2		10256	NJM79L05UA	IC	Ţ	1	
C763 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				-				10	7	1	
C764 ECUMIHATOJON C. CAPACITOR CH 50V 47P 1 1 10259 MC74HC00AF 1C 1 1 C765 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1 1 10301 NJM79L05UA 1C 1 1 C766, 87 ECEVOJV3300 E. CAPACITOR CH 25V 0.1U 1 1 10302 NJM78L05UA 1C 1 1 C768 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1 1 10303 NJM084M 1C 1 1 C769 ECEV1CV4700 E. CAPACITOR CH 16V 47U 1 1 10304 AD818AR 1C 1 1 C770 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1 1 10308 CXD1175AM 1C 1 1									$\dashv$		
C765 EQUMIE 104ZFN C. CAPACITOR CH 25V 0.1U 1 1 10301 NJM79L05UA 1C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				-				<del></del>	+		
C766, 87 ECEVOLV3300 E CAPACITOR CHG. 3V 33U 2 10302 NJM78L05UA 1C 1  C768 ECUMIE104ZFN C CAPACITOR CH 25V 0.1U 1 112033 NJM084M 1C 11  C769 ECEVICV4700 E CAPACITOR CH 16V 47U 1 1 1C304 AD818AR 1C 1  C770 ECUMIE104ZFN C CAPACITOR CH 25V 0.1U 1 1 1C308 CXD1175AM 1C 1		<u> </u>							+	_	
C768 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1 1 1C303 NJM084M IC 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		·		·					4		
C769 ECEV1CV4700 E. CAPACITOR CH 16V 47U 1 1 1G304 AD818AR IC 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C766, 67	ECEV0JV3300	E. CAPACITOR CH8. 3V 33U	2					4		
C770 ECUM1E104ZFN C. CAPACITOR CH 25V 0.1U 1 1 1C308 CXD1175AM IC 1	C768	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	<u></u> 1	<u></u>	10303	NJM084M		┙	_1	
C770 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C769	ECEV1CV4700	E. CAPACITOR CH 16V 47U	1		10304	AD818AR	IC	T	1	
				-				IC	7	1	
071 EXECUTION E. ON POLICY OF TO 1		·							+		
	3771		=, 5/11/10/10/10/10/10/10/10/10/10/10/10/10/	ť	<del> </del>		22307	· · · · · · · · · · · · · · · · · · ·	$^{+}$	<u>.</u>	
		ļ	<del></del>	1		<del></del>			+		
	L	<u> </u>	<u> </u>	1	]]	L	L		_	-	

Ref. No.         Part No.           10351, 52         NJM78LOSUJ           10353         NJM78LOSUJ           10354         CXD2105AQ           10355         ADB047AR           10356         MC74HC405           10357         58           10359         MC74HC405           10401         SK74LS221           10402         03           10404         MC74HC04AI           10408         NJM78LOSUJ           10410         NJM082BM           10414         MC74HC405           10418         NJM082BM           10419         MC74HC405           10428         UPD65013B           10435         NJM1496BM           10455         MC74HC405           10451         NJM319M           10452         NJM319M           10455         MC74HC405           10450         NJM78L05U           10501         NJM78L05U           10502         NJM78L05U           10503         AN91A12S           10504         MC14538BF           10505         NJM78L05U           10506         NJM78L05U           10551         MC74HC00AI<	A 1C A 1C IC IC IC IC IC IC IC IC IC IC IC IC IC	2 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1	L355 L358 L401 L451-55 L456 L457, 58 L501 L551 L601, 02 L651 L652	VLQ0163J270 VLQ0163J6R8 VLQ0163J5R8 VLQ0319K101 VLQ0319K101 VLQ0183J470 VLQ0163J560 VLQ0163J583 VLQ0163J3R3 VLQ0163J3R3	Part Name & Description COIL 27UH COIL 6.8UH COIL 5.6UH COIL 100UH COIL 100UH COIL 47UH COIL 56UH COIL 390UH COIL 390UH COIL 3.3UH	1 1 1 5	
IC353	A IC IC IC IC IC IC IC IC IC IC IC IC IC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L355 L358 L401 L451-55 L456 L457, 58 L501 L551 L601, 02 L651 L652	VLQ0163J6R8 VLQ0163J5R8 VLQ0319K101 VLQ0319K101 VLQ0163J470 VLQ0163J560 VLQ0163J391 VLQ0163J3R3 VLQ0319K101	COIL 6.8UH COIL 5.6UH COIL 100UH COIL 100UH COIL 47UH COIL 56UH COIL 390UH COIL 3.3UH	1 1 5 1 2	
C354	1C	1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L358 L401 L451-55 L458 L457, 58 L457, 58 L551 L601, 02 L651 L652	VLQ0163J5R8 VLQ0319K101 VLQ0319K101 VLQ0163J470 VLQ0163J560 VLQ0163J391 VLQ0163J3R3 VLQ0319K101	COIL 5. GUH COIL 100UH COIL 100UH COIL 47UH COIL 5GUH COIL 390UH COIL 3. 3UH	1 5 1 2	
IC355	IC	1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L401  L451-55  L456  L457, 58  L501  L551  L601, 02  L651  L852	VLQ0319K101 VLQ0319K101 VLQ0163J470 VLQ0163J560 VLQ0163J391 VLQ0163J3R3 VLQ0163J3R3	COIL 100UH COIL 100UH COIL 47UH COIL 56UH COIL 390UH COIL 3.3UH	1 5 1	
C355	3F IC   1C   1C   1C   1C   1C   1C   1C	1 2 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1	L451-55 L456 L457, 58 L501 L551 L601, 02 L651 L852	VLQ0319K101 VLQ0183J470 VLQ0163J560 VLQ0133J391 VLQ0163J3R3 VLQ0319K101	COIL 100UH COIL 47UH COIL 56UH COIL 390UH COIL 3.3UH	1 2	
C356   MC74HC405:     C357, 58   ADB047AR     C359   MC74HC405:     C401   SN74LS221      C402   MM74HC221      C404   MC74HC04A      C408   MJ78L05U,     C407   NJM78L05U,     C410   NJM78L2BM     C411   MC74HC405:     C423   NJM082BM     C411   MC74HC405:     C423   NJM082BM     C412   NJM319M     C423   NJM319M     C455, 58   MC74HC405:     C450   NJM78L05U,     C460   NJM79L05U,     C460   NJM78L05U,     C501   NJM78L05U,     C502   NJM78L05U,     C503   ANB1A12S     C504   MC145S8F     C5554   MC74HC405:     C5555   MC74HC405:     C556   NJM082BM     C455   SN74LS221      C560   NJM082BM     C551   MC74HC405:     C561   TC4W53F     C562   SN74LS221      C563   MC74HC405:     C665   NJM082BM     C565   NJM082BM     C565   NJM082BM     C565   NJM082BM     C565   NJM082BM     C565   NJM084BM     C665   NJM78L05U,     C665   NJM78L05U,     C665   NJM78L05U,     C665   NJM78L05U,     C670   NJM78L05U,     C670   NJM78L05U,     C670   NJM78L05U,     C670   NJM78L05U,     C670   NJM78L05U,     C670   NJM78L05U,     C700   NJM78L05U,     C701   NJM78L05U,     C702   NJM79L05U,     C703   MC74HC405:     C706   AD84BJR     C706   AD84BJR     C707   NJM78L05U,     C707   NJM78L05U,     C707   NJM78L05U,     C707   NJM78L05U,     C707   NJM78L05U,     C707   NJM78L05U,     C707   NJM78L05U,     C707   NJM78L05U,     C707   NJM78L05U,     C707   NJM78L05U,     C707   NJM78L05U,     C707   NJM78L05U,     C708   NJM78L05U,     C709   NJM78L05U,     C701   NJM78L05U,     C701   NJM78L05U,     C702   NJM78L05U,     C703   MC74HC405:     C704   NJM78L05U,     C705   NJM084M     C706   AD84BJR     C707   NJM78L05U,     C708   NJM084M     C708   NJM08	3F IC   1C   1C   1C   1C   1C   1C   1C	2 1 1 2 1 1 1 1 1 1 1 1	L458 L457, 58 L501 L551 L601, 02 L651 L852	VLQ0183J470 VLQ0183J560 VLQ0133J391 VLQ0163J3R3 VLQ0319K101	COIL 47UH COIL 56UH COIL 390UH COIL 3.3UH	1 2	
C357, 58   AD8047AR   C359   MC74HC405: C402, O3   MM74HC321, C4002, O3   MM74HC351, C4002, O3   MM74HC351, C4002, O3   MM74HC351, C4002, O3   MM74HC351, C4002, O3   MM74HC405: C4002, O3   MM74HC405: C4002, O3   MM74HC405: C4002, O3   MM74HC405: C4002, O3   MM74HC351, C4002, O3   MM74HC351, C4002, C4	1C   3F   1C   1C   1C   1C   1C   1C   1C   1	2 1 1 2 1 1 1 1 1 1 1 1	L458 L457, 58 L501 L551 L601, 02 L651 L852	VLQ0183J470 VLQ0163J560 VLQ0133J391 VLQ0163J3R3 VLQ0319K101	COIL 56UH COIL 390UH COIL 3.3UH	2	
C359   MC74HC405      C401   SN74LS221      C402   O3   MM74HC221      C404   MC74HC04A      C406   MJ78HC05U      C407   NJM78L05U      C407   NJM78L05U      C410   NJM082BM     C411   MC74HC405      C418   NJM082BM     C414   MC74HC405      C428   UPD85013B      C455   SH MC74HC405      C455   MJM78L05U      C450   NJM78L05U      C501   NJM78L05U      C502   NJM78L05U      C503   AN91A12S      C504   MC14588F      C505   MC74HC40A      C555   TC4S584F      C556   NJM082BM     C556   NJM082BM     C556   NJM082BM     C556   NJM082BM     C560   NJM78L05U      C561   NJM78L05U      C562   NJM78L05U      C563   MC74HC24A      C665   NJM082BM     C665   AD84BJR     C666   AD84BJR     C666   AD84BJR     C6701   NJM78L05U      C702   NJM78L05U      C703   MC74HC405      C701   NJM78L05U      C702   NJM78L05U      C703   MC74HC405      C704   NJM78L05U      C705   NJM084M     C706   AD84BJR     C707   MC74HC405      C707   MJM78L05U      C708   ANPANO9     C711   NJM78L05U      C701   NJM78L05U      C702   NJM78L05U      C703   MC74HC405      C704   ANPANO9     C705   NJM084M     C706   AD84BJR     C707   MF4056BFF     C707   MF4056BFF     C708   MF4056BFF     C709	3F IC NS IC AM IC F IC A IC IC IC IC IC IC IC IC IC IC IC IC IC I	1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L457, 58 L501 L551 L601, 02 L651 L852	VLQ0163J560 VLQ0133J391 VLQ0163J3R3 VLQ0319K101	COIL 56UH COIL 390UH COIL 3.3UH	2	1
CA01	NS IC  AM IC  I IC	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L501 L551 L601, 02 L651 L852	VLQ0133J391 VLQ0163J3R3 VLQ0319K101	COIL         390UH           COIL         3.3UH	-	
IC402, 03   MM74HC221/10404   MC74HC04AI   IC406   MJM78L05U/10410   MC74HC405I   IC410   MJM78L05U/10411   MC74HC405I   IC411   MC74HC405I   IC411   MC74HC405I   IC412   MJM082BM   IC413   MJM082BM   IC413   MJM082BM   IC415   MJM319M   IC455, 56   MC74HC405I   IC460   MJM78L05U/10501   MJM78L05U/10701   MJM78L05U	AM IC F IC A IC IC IC IC IC SF IC IC IC IC IC IC IC IC IC IC IC IC IC	2 1 1 1 1 1 1 1 1	L551 L601, 02 L651 L852	VLQ0163J3R3 VLQ0319K101	COIL 3. 3UH	_	
C404	F 1C A 1C A 1C 1C A 1C A 1C A 1C A 1C A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L601, 02 L651 L652	VLQ0319K101			
IC408	A 10 10 10 3F 10 3F 10 10 10 10 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L651 L652			1	
C407   NJM79LOSUJ     C410   NJM082BM     C414   MC74HC405:     C418   NJM082BM     C418   NJM082BM     C418   NJM082BM     C428   UPD85013B     C428   UPD85013B     C455   S6 MC74HC405:     C455   S6 MC74HC405:     C460   NJM79LOSUJ     C501   NJM78LOSUJ     C502   NJM78LOSUJ     C503   AN91A12S     C504   MC1453BF     C505   MC74HC40A     C555   TC45584F     C507   MM53015VZ     C551   MC74HC40A     C552   TC45584F     C554   MC74HC40A     C555   NJM082BM     C561   NJM78LOSUJ     C562   NJM79LOSUJ     C563   MC74HC40A     C565   NJM082BM     C564   NJM78LOSUJ     C655   NJM082BM     C565   NJM082BM     C566   NJM78LOSUJ     C665   NJM78LOSUJ     C665   NJM78LOSUJ     C665   NJM78LOSUJ     C666   NJM78LOSUJ     C702   NJM79LOSUJ     C703   MC74HC405     C704   NJM78LOSUJ     C705   NJM084M     C706   AD84BJR     C701   NJM78LOSUJ     C702   NJM79LOSUJ     C703   MC74HC405     C704   NJM78LOSUJ     C705   NJM084M     C706   AD84BJR     C7070   MC74HC405     C7070   MC74HC405     C7070   MC74HC405     C7070   MC74HC405     C7070   NJM78LOSUJ     C7070   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC74HC405     C708   MC7	A IC IC IC IC IC IC IC IC IC IC IC IC IC	1 1 1 1	L852		COIL 100UH	2	
IC410	IC	1 1 1		VLQ0133J821	COIL 820UH	_1	
IC410	IC	1 1 1		VLQ0319K101	COIL 100UH	1	
C4114   MC74HC405    C418   NJM082BM     C419   MC74HC405    C423   NJM082BM     C423   NJM082BM     C423   NJM082BM     C424   UPD65013B    C451   NJM319M     C452, 53   NJM1496M     C455, 56   MC74HC405    C450   NJM78L05U,     C502   NJM79L05U,     C503   AN91A12S     C504   MC1453BF     C507   MN33015VZ      C507   MN33015VZ      C508   MC74HC74A      C551   MC74HC061      C552   TC4S584F     C554   MC74HC74A      C555   NJM082BM     C560   NJM78L05U,     C560   NJM082BM     C560   NJM082BM     C560   NJM082BM     C560   NJM082BM     C560   NJM082BM     C661   NJM78L05U,     C652   NJM084M     C665   AD84BJR     C666   AD84BJR     C6701   NJM78L05U,     C702   NJM78L05U,     C703   MC74HC405      C704   NJM78L05U,     C705   NJM084M     C706   AD84BJR     C701   MH4056BPF     C711   NJM78L05U,     C712   AN78N09     C713   T74HC1541,     C755   NJM084M     C756   AD84BJR     C760   MB4056BPF     C761   NJM78L05U,     C775   NJM084M     C756   AD84BJR     C760   MB4056BPF     C761   NJM78L05U,     C775   NJM084M     C756   AD84BJR     C760   MB4056BPF     C761   NJM78L05U,     C775   NJM084M     C756   AD84BJR     C760   MB4056BPF     C761   NJM78L05U,     C762   AN78N09     C7762	3F IC IC 3F IC IC IC IC IC IC IC IC IC	1 1			COIL 820UH	1	
C418   NJM082BM   C419   MC74HC405: C423   NJM082BM   C419   NJM082BM   C428   UPD65013Bi   C428   UPD422806; C423   NJM1496M   C455. 56   MC74HC405: C459   NJM78L05U, C500   NJM78L05U, C501   NJM78L05U, C501   NJM78L05U, C502   NJM78L05U, C503   AN91A12S   C504   MC14538BF   C507   MN53015VZ   C551   MC74HC74AI   C551   MC74HC74AI   C551   MC74HC74AI   C551   SN74LS221I   C560   NJM082BM   C560   NJM082BM   C560   NJM082BM   C560   NJM082BM   C661   NJM78L05U, C665   NJM084M   C666   AD84BJR   C666   AD84BJR   C6701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C702   NJM78L05U, C701   NJM78L05U, C702   NJM78L05U, C703   MC74HC405   C704   NJM78L05U, C705   NJM084M   C706   AD84BJR   C710   MB4056BPF   C711   NJM78L05U, C711   AN78L05U, C711   AN78L05U, C755   NJM084M   C756   AD84BJR	IC   3F   IC   IC   C16   IC   IC   IC   IC   IC   IC   IC   I	1			COIL 820UH	1	
C419         MC74HC405           C423         NJM082BM           C423         NJM082BM           C4243         NJM082BM           C4251         NJM19M           C4551         NJM19M           C4555         MC74HC405           C459         NJM78L05U           C501         NJM78L05U           C502         NJM79L05U           C503         ANB1A12S           C504         MC14538BF           C507         MN53015VZ           C551         MC74HC00AI           C552         TC4S84F           C554         MC74HC0AI           C555         TC4S84F           C556         NJM082BM           C561         TC4W53F           C562         SN74LS221I           C561         TC4W53F           C562         SN74LS221I           C661         NJM78L05U           C652         NJM79L05U           C653         MC74HC405           C685         NJM084M           C686         AD84BJR           C686         CXD1175AM           C6701         NJM78L05U           C702         NJM79L05U <t< td=""><td>3F IC IC IC IC</td><td></td><td></td><td>VLQ01330621</td><td>0012 020011</td><td>H</td><td></td></t<>	3F IC IC IC IC			VLQ01330621	0012 020011	H	
C423         NJM082BM           C428         UPD65013BI           C451         JUM319M           C452,53         NJM1496M           C455,56         MC74HC405L           C459         NJM79L05U           C501         NJM79L05U           C502         ANP1A12S           C503         ANP1A12S           C504         MC1453BF           C551         MC74HC00AI           C552         TC45584F           C551         MC74HC0AI           C552         TC45584F           C554         MC74HC74AI           C555         NJM082BM           C556         TC4453F           C556         NJM082BM           C551         MC74HC244           C651         TC4W53F           C552         NJM78L05U           C653         MC74HC244           C651         NJM78L05U           C652         NJM78L05U           C653         MC74HC405           C654         AD84BJR           C665         AD84BJR           C666         AD84BJR           C701         NJM78L05U           C702         NJM78L05U	1C C16 IC					<u> </u>	
C428	C16 IC	1	P1, P2	VJP3454B096	CONNECTOR (MALE)	2	
C451   NJM319M   C455, 56   MC74HC405; C459   NJM78L05U, C502   NJM79L05U, C503   AN91A12S   C504   MC74HC405; C507   MC74HC74A  C557   MC74HC74A  C557   MC74HC74A  C557   MC74HC74A  C557   MC74HC74A  C557   MC74HC74A  C557   MC74HC74A  C557   MC74HC74A  C557   MC74HC74A  C557   MC74HC74A  C557   MC74HC74A  C651   TC4W53F   C562   NJM082BM   C560   NJM78L05U, C655   MC74HC24A, C651   NJM78L05U, C655   MC74HC24A  C651   NJM78L05U, C655   MC74HC405  C656   MC74HC405  C656   MC74HC405  C656   MC74HC405  C701   NJM78L05U, C702   MC74HC405  C701   MJM78L05U, C703   MC74HC405  C701   MC74HC405  C701   MC74HC405  C701   MC74HC405  C701   MC74HC405  C701   MC74HC405  C701   MC74HC405  C701   MC74HC405  C701   MC74HC405  C701   MC74HC405  C701   MM78L05U, C701   MM78L05U, C701   MM78L05U, C701   MM78L05U, C701   MM78L05U, C701   MM78L05U, C701   MM78L05U, C701   MM78L05U, C701   MM78L05U, C701   MM78L05U, C701   MM78L05U, C701   MM78L05U, C701   MM78L05U, C705   MC74HC405  C70	IC	1				L	
C451   NJM319M   C452, 53   NJM1496M   C452, 56   MC74HC405; C459   NJM78L05U, C502   NJM78L05U, C502   NJM78L05U, C503   AND1A12S   C504   MC74HC405; C507   MN53015VZ; C507   MN53015VZ; C507   MN53015VZ; C507   MN53015VZ; C507   MC74HC74A  C557   NT4LS221  C560   NJM082BM   C560   NJM082BM   C560   NJM082BM   C560   NJM082BM   C560   NJM78L05U, C652   NJM78L05U, C652   NJM79L05U, C652   NJM79L05U, C653   MC74HC24A, C551   NJM78L05U, C656   NJM084M   C666   AD84BJR   C660   CXD1175AM   C661   NJM78L05U, C702   NJM79L05U, C702   NJM79L05U, C703   MC74HC405  C705   NJM084M   C706   AD84BJR   C700   NJM78L05U, C702   NJM79L05U, C703   MC74HC405  C701   NJM78L05U, C701   NJM78L05U, C702   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C701   NJM78L05U, C705   NJM084M   C706   AD84BJR   C706   MB40568PF   NJM084M   C706   AD84BJR   C706   MB40568PF   C7082   AN78N09	IC	1	Q251	2SB709A-R	TRANSISTOR	1	
C452, 53   NJM1496M     C455, 56   MC74HC405;     C459   NJM78L05U,     C450   NJM78L05U,     C5501   NJM78L05U,     C502   NJM78L05U,     C503   AN91A12S     C504   MC14538BF     C505   MC74HC74A      C551   MC74HC74A      C551   MC74HC74A      C552   TC45584F     C554   MC74HC74A      C556   NJM082BM     C561   TC4W53F     C562   SN74LS221      C561   MC74HC244,     C651   NJM78L05U,     C652   NJM78L05U,     C653   MC74HC405;     C654   AD84BJR     C665   AD84BJR     C666   AD84BJR     C6701   NJM78L05U,     C702   NJM79L05U,     C703   MC74HC405;     C704   NJM78L05U,     C705   NJM084M     C706   AD84BJR     C710   MB4056BPF     C711   NJM78L05U,     C712   AN78N09     C713   T74HC1541,     C755   NJM084M     C756   AD84BJR     C757   NJM78L05U,     C758   AD84BJR     C759   NJM78L05U,     C759   NJM78L05U,     C751   NJM78L05U,     C752   NJM78L05U,     C753   MC74HC405;     C754   AN78N09     C755   NJM084M     C756   AD84BJR     C756   AD84BJR     C757   NJM78L05U,     C758   AD84BJR     C759   MC74HC405;     C759   NJM78L05U,     C758   AD84BJR     C760   MB4056BPF     C761   NJM78L05U,     C762   AN78N09     C762   AN78N09     C763   AD84BJR     C760   MB4056BPF     C761   NJM78L05U,     C762   AN78N09     C762   AN78N09     C763   AD84BJR     C760   MB4056BPF     C761   NJM78L05U,     C762   AN78N09     C762   AN78N09     C763   AD84BJR     C760   MB4056BPF     C761   NJM78L05U,     C762   AN78N09     C762   AN78N09     C763   AN78N09     C764   AN78N09     C765   AN78N09     C766   AN78N09     C766   AN78N09     C766   AN78N09     C766   AN78N09     C767   AN78N09     C768   AN78N09		11			TRANSISTOR	2	
C455.56   MC74HC405    C459   NJM78L05U,   C460   NJM78L05U,   C501   NJM78L05U,   C502   NJM79L05U,   C503   AN91A12S     C504   MC14538BF     C507   MN53015VZ     C551   MC74HC00Al     C552   TC4S584F     C554   MC74HC2AAl     C555   MC74HC2AAl     C556   NJM082BM     C560   NJM082BM     C560   NJM082BM     C561   TC4W53F     C560   NJM082BM     C561   TC4W53F     C562   SN74LS221     C563   MC74HC24A     C661   NJM78L05U,     C665   NJM084M     C666   AD84BJR     C666   AD84BJR     C666   AD84BJR     C702   NJM78L05U,     C703   MC74HC405     C704   NJM78L05U,     C705   NJM084M     C706   AD84BJR     C7070   MC74HC405     C7070   NJM78L05U,     C7070   NJM78L05U,     C7070   NJM78L05U,     C708   AD84BJR     C709   AN78N09     C711   NJM78L05U,     C755   NJM084M     C756   AD84BJR     C7575   NJM084M     C7575   NJM084M     C758   MC74HC405     C759   NJM78L05U,     C750   NJM78L05U,     C751   NJM78L05U,     C752   NJM78L05U,     C753   MC74HC405     C754   AN78N09     C755   NJM084M     C756   AD84BJR     C760   ME40568PF     C761   NJM78L05U,     C762   AN78N09     C763   AD84BJR     C760   ME40568PF     C761   NJM78L05U,     C762   AN78N09     C7630   UPD422806;     C6802   T160941-1     C6803   UPD422806;     C6802   T160941-1     C6803   UPD422806;     C6804   UPD422806;     C6804   UPD422806;     C6805   UPD422806;     C6804   UPD422806;     C6804   UPD422806;     C6804   UPD422806;     C6805   UPD422806;     C6806   UPD422806;     C	110	2		2SB709A-R	TRANSISTOR	1	
C459   NJM78L05U,						<u>'</u>	
C460   NJM79L05U,		2		2SD601A-R	TRANSISTOR	_	
C501   NJM78L05U,     C502   NJM78L05U,     C503   AN91A12S     C504   MC1453BBF     C507   MM53015V2     C5551   MC74HC0CAI     C5552   TC4S584F     C5554   MC74HC74AI     C5567   NJM082BM     C5560   NJM082BM     C561   TC4M53F     C562   SN74LS221I     C563   MC74HC244,     C651   NJM78L05U,     C652   NJM79L05U,     C653   MC74HC24AI     C655   NJM084M     C665   AD84BJR     C666   AD84BJR     C666   AD84BJR     C6701   NJM78L05U,     C702   NJM79L05U,     C703   MC74HC405     C705   NJM084M     C706   AD84BJR     C7070   MC74HC405     C7070   MC74HC405     C708   MC74HC405     C709   MC74HC405     C709   MC74HC405     C701   MJM78L05U,     C701   MJM78L05U,     C702   NJM78L05U,     C703   MC74HC405     C705   NJM084M     C706   AD84BJR     C707   MT78L05U,     C707   MT78L05U,     C708   MC74HC405     C709   MC74HC405     C700   MC74HC405     C700   MC74HC405     C700   MC74HC405     C700		1			TRANSISTOR	1	<del></del>
C502   NJM78L05U    C503   AN91A12S     C504   MC14538BF     C507   MN53015VZ    C551   MC74HC02A    C552   TC4S84F     C554   MC74HC74A    C555   SN74LS221    C560   NJM082BM     C561   TC4W53F     C562   SN74LS221    C567   MC74HC24A    C661   NJM78L05U    C652   NJM084M     C656   AD84BJR     C666   AD84BJR     C666   AD84BJR     C661   NJM78L05U    C701   NJM78L05U    C702   NJM79L05U    C703   MC74HC405    C705   NJM084M     C706   AD84BJR     C7070   MB40568PF     C711   NJM78L05U    C712   AN78N09     C713   T74HC1541    C753   MC74HC405    C755   NJM084M     C756   AD84BJR     C757   NJM78L05U    C758   AD84BJR     C759   NJM78L05U    C759   NJM78L05U    C751   NJM78L05U    C752   NJM78L05U    C753   MC74HC405    C755   NJM084M     C756   AD84BJR     C757   NJM78L05U    C758   AD84BJR     C759   MC74HC405    C758   AD84BJR     C759   MB40568PF     C759   NJM78L05U    C751   NJM78L05U    C752   AN78N09     C753   AD84BJR     C754   AD84BJR     C756   AD84BJR     C756   AD84BJR     C756   AD84BJR     C756   AD84BJR     C756   AD84BJR     C756   AD84BJR     C757   NJM78L05U    C758   AD84BJR     C759   AN78N09     C750   MB40568PF     C760	A IC	1	Q351	2SD601A-R	TRANSISTOR	_1	<del></del>
C502   NJM78L05U    C503   AN91A12S     C504   MC14538BF     C507   MN53015VZ    C551   MC74HC02A    C552   TC4S84F     C554   MC74HC74A    C555   SN74LS221    C560   NJM082BM     C561   TC4W53F     C562   SN74LS221    C567   MC74HC24A    C661   NJM78L05U    C652   NJM084M     C656   AD84BJR     C666   AD84BJR     C666   AD84BJR     C661   NJM78L05U    C701   NJM78L05U    C702   NJM79L05U    C703   MC74HC405    C705   NJM084M     C706   AD84BJR     C7070   MB40568PF     C711   NJM78L05U    C712   AN78N09     C713   T74HC1541    C753   MC74HC405    C755   NJM084M     C756   AD84BJR     C757   NJM78L05U    C758   AD84BJR     C759   NJM78L05U    C759   NJM78L05U    C751   NJM78L05U    C752   NJM78L05U    C753   MC74HC405    C755   NJM084M     C756   AD84BJR     C757   NJM78L05U    C758   AD84BJR     C759   MC74HC405    C758   AD84BJR     C759   MB40568PF     C759   NJM78L05U    C751   NJM78L05U    C752   AN78N09     C753   AD84BJR     C754   AD84BJR     C756   AD84BJR     C756   AD84BJR     C756   AD84BJR     C756   AD84BJR     C756   AD84BJR     C756   AD84BJR     C757   NJM78L05U    C758   AD84BJR     C759   AN78N09     C750   MB40568PF     C760	A IC	1	Q352	2SB709A-R	TRANSISTOR	7	
C503		1	Q401, 02	2SD601A-R	TRANSISTOR	2	
C504	IC	1		2SD601A-R	TRANSISTOR	4	
C507   MNS3015VZ  C551   MC74HC00A  C552   TC45584F   C554   MC74HC74A  C5551   MC74HC74A  C5557   SN74LS221  C5560   NJM082BM   C5661   TC4W53F   C5662   SN74LS221  C567   MC74HC244, C6651   NJM78L05U, C6652   NJM084M   C6656   A0848JR   C6660   CXD1175AM   C6656   A0848JR   C702   NJM78L05U, C702   NJM78L05U, C702   NJM78L05U, C703   MC74HC405   C705   NJM084M   C706   A0848JR   C706   A0848JR   C706   A0848JR   C706   A0848JR   C70712   AN78N09   C711   NJM78L05U, C712   AN78N09   C713   T74HC7541, C755   NJM084M   C756   A0848JR   C7561   NJM78L05U, C755   NJM084M   C7565   A0848JR   C7561   NJM78L05U, C755   NJM084M   C7565   A0848JR   C7561   NJM78L05U, C7555   NJM084M   C7565   A0848JR   C7660   ME40568PF   C76762   AN78N09   C76762   AN78N09   C76801   MF40568PF   C76802   T160941-1   C6803   UPD422806; C6802   T160				2SB709A-R	TRANSISTOR	4	<del></del>
C551   MC74HC0OAI     C552   TC4S584F     C5534   MC74HC174Ai     C5557   SN74LS2211     C5560   NJM082BM     C561   TC4W53F     C562   SN74LS2211     C5657   MC74HC244     C6561   NJM78LOSU     C6652   NJM79LOSU     C6653   MC74HC405     C6654   AD848JR     C6660   CXD1175AM     C6656   AD848JR     C6660   CXD1175AM     C702   NJM78LOSU     C703   MC74HC405     C704   NJM78LOSU     C705   NJM084M     C706   AD848JR     C707   AD848JR     C708   AD848JR     C709   AD848JR     C709   AD848JR     C701   NJM78LOSU     C701   NJM78LOSU     C702   NJM78LOSU     C703   MC74HC405     C704   AN78N09     C705   NJM084M     C705   NJM78LOSU     C705   NJM78LOSU     C705   NJM78LOSU     C705   NJM78LOSU     C705   NJM78LOSU     C705   NJM78LOSU     C706   ME40568PF     C706   ME40568PF     C707   C7082   AN78N09     C7082   AN78N09     C7082   AN78N09     C7084   AN78N09     C7085   AD848JR     C7086   ME40568PF     C7086   ME40568PF     C7086   T160941-1     C8003   UPD422806     C802   T160941-1     C803   UPD422806     C802   T160941-1     C803   UPD422806     C802   T160941-1     C803   UPD422806     C802   T160941-1     C803   UPD422806     C802   T160941-1     C803   UPD422806     C802   T160941-1     C803   UPD422806     C802   T160941-1     C803   UPD422806     C804   UPD422806     C805   UPD422806     C806   UPD422806	IC					8	
C552		1			TRANSISTOR	_	
IC554   MC74HC74A    IC557   SN74LS221    IC560   NJM082BM     IC561   TC4W53F     IC562   SN74LS221    IC562   SN74LS221    IC565   MC74HC244    IC651   NJM78L05U,   IC652   NJM79L05U,   IC653   MC74HC405    IC655   NJM084M     IC666   AD84BJR     IC666   CXD1175AM     IC666   CXD1175AM     IC667   NJM78L05U,   IC701   NJM78L05U,   IC702   NJM78L05U,   IC703   MC74HC405    IC705   NJM084M     IC706   AD84BJR     IC710   MB40568PF     IC711   NJM78L05U,   IC712   AN78N09     IC712   AN78N09     IC713   T74HCT541,   IC752   NJM78L05U,   IC753   MC74HC405    IC756   NJM084M     IC756   AD84BJR     IC760   MB40568PF     IC761   NJM78L05U,   IC752   NJM084M     IC763   AD84BJR     IC760   MB40568PF     IC761   NJM78L05U,   IC762   AN78N09     IC762   AN78N09     IC763   MC74HC405    IC764   AN78N09     IC766   MB40568PF     IC767   NJM78L05U,   IC7680   ME40568PF     IC7680   IC7602   T160941-1	F IC	1	Q551	2SC3757-R	TRANSISTOR	1	
C557   SN74LS221    C560   NJM082BM     C561   TC4M93F     C562   SN74LS221    C562   SN74LS221    C563   MC74HC24A    C665   NJM79L05U,   C652   NJM79L05U,   C653   MC74HC405:   C656   AD84BJR     C666   AD84BJR     C666   AD84BJR     C661   NJM78L05U,   C702   NJM78L05U,   C702   NJM78L05U,   C703   MC74HC405:   C705   NJM084M     C6704   AD84BJR     C706   AD84BJR     C707   AD84BJR     C708   AD84BJR     C709   AD84BJR     C701   NJM78L05U,   C702   NJM78L05U,   C703   MC74HC405:   C705   NJM084M     C706   AD84BJR     C707   AN78N09     C711   NJM78L05U,   C755   NJM084M     C756   AD84BJR     C756   AD84BJR     C757   NJM084M     C758   AD84BJR     C769   MB40568PF     C769   MB40568PF     C769   AN78N09     C769   AN78N09     C769   AN78N09     C769   AN78N09     C769   AN78N09     C760   AN	IC	1	Q552, 53	2SA1226	TRANSISTOR	2	2
C557   SN74LS221    C560   NJM082BM     C561   TC4M53F     C562   SN74LS221    C562   SN74LS221    C563   MC74HC24A    C665   MC74HC24A    C665   MC74HC405    C656   AD84BJR     C666   AD84BJR     C666   AD84BJR     C666   AD84BJR     C6701   NJM78LO5U,     C702   NJM78LO5U,     C703   MC74HC405    C704   AD84BJR     C706   AD84BJR     C707   AD87BLO5U,     C707   AD87BLO5U,     C708   AD84BJR     C709   AD87BLO5U,     C709   AD87BLO5U,     C701   AD87BLO5U,     C705   AD84BJR     C706   AD84BJR     C707   AN78N09     C711   AN78N09     C712   AN78N09     C715   NJM78LO5U,     C755   NJM084M     C756   AD84BJR     C756   AD84BJR     C756   AD84BJR     C766   MB4056BFF     C761   NJM78LO5U,     C762   AN78N09     C760   MB4056BFF     C761   NJM78LO5U,     C762   AN78N09     C6601   UPD422B06;     C6802   T160941-1	FIC	1	Q554	2SC3757-R	TRANSISTOR	1	
C560   NJM082BM   C561   TC4W53F   TC4W53F   TC4W53F   C562   SN74LS221  C567   MC74HC244, MC74HC244, MC74HC244, MC74HC244, MC74HC245, MC74HC405; MC755   MC74HC405; MC755   MC74HC405; MC755   MC74HC405; MC755   MC74HC405; MC755   MC755   MC74HC405; MC756   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   ME40568PF   MC76F   MC7		1	Q601-03	2SB709A-R	TRANSISTOR	3	
C561   TC4W53F     C562   SN74LS221    C562   SN74LS221    C567   MC74HC244,   C6651   NJM78LOSU,   C6652   NJM78LOSU,   C6653   MC74HC405,   C655   NJM084M     C656   AD848JR     C6660   CXD11.75AM     C6661   NJM78LOSU,   C702   NJM79LOSU,   C702   NJM79LOSU,   C703   MC74HC405,   C705   NJM084M     C706   AD848JR     C706   AD848JR     C707   AN78NO9     C711   NJM78LOSU,   C712   AN78NO9     C713   T74HC1541,   C755   NJM084M     C756   AD848JR     C756   NJM084M     C757   NJM79LOSU,   C758   MC74HC405,   C758   MC74HC405,   C758   MC74HC405,   C758   MC74HC405,   C758   MC74HC405,   C758   AD848JR     C758   AD848JR     C758   AD848JR     C758   AD848JR     C758   AD848JR     C758   AD848JR     C760   ME40568PF     C761   NJM78LOSU,   C762   AN78NO9     C763   AN78NO9     C763   AN78NO9     C764   AN78NO9     C764   AN78NO9     C764   AN78NO9     C764   AN78NO9     C765   AN78NO9     C765   AN78NO9     C766   AN78NO9     C766   AN78NO9     C766   AN78NO9     C766   AN78NO9     C766   AN78NO9     C766   AN78NO9     C766   AN78NO9     C766   AN78NO9     C766   AN78NO9     C767   AN78NO9     C768   AN78NO9     C768   AN78NO9     C	10	<del>-    </del>		2SD601A-R	TRANSISTOR	3	1
C562   SN74LS221    C567   MC74HC244,   C651   NJM78LOSU,   C6652   NJM79LOSU,   C6653   MC74HC405,   C6654   MC74HC405,   C6656   AD848JR   C6666   AD848JR   C6661   NJM78LOSU,   C702   NJM78LOSU,   C703   MC74HC405,   C705   NJM084M     C706   AD848JR   C706   AD848JR   C707   NJM78LOSU,   C702   NJM78LOSU,   C703   MC74HC405,   C705   NJM084M     C706   AD848JR     C707   AN78NO9     C711   NJM78LOSU,   C712   AN78NO9     C713   T74HCT541,   C755   NJM78LOSU,   C755   NJM78LOSU,   C756   AD848JR     C756   AD848JR     C756   AD848JR     C760   MB40568PF     C761   NJM78LOSU,   C762   AN78NO9     C762   AN78NO9     C763   AN78NO9     C766   MB40568PF     C766   MB40568PF     C7682   AN78NO9     C7682   AN78NO9     C7680   UPD422806;   C6802   UPD422806;   C6803   UPD422806;   C6803   UPD422806;					TRANSISTOR	1	
C567   MC74HC244,     C651   NJM78LOSU,     C652   NJM78LOSU,     C653   MC74HC405;     C653   MC74HC405;     C655   NJM084M     C666   CXD1175AM     C666   CXD1175AM     C666   CXD1175AM     C666   CXD1175AM     C6702   NJM78LOSU,     C703   MC74HC405;     C705   NJM084M     C705   NJM084M     C706   AD84BJR     C710   MB40568PF     C711   NJM78LOSU,     C712   AN78N09     C713   T74HC1541,     C755   NJM084M     C756   AD84BJR     C756   AD84BJR     C757   NJM78LOSU,     C758   MC74HC405;     C759   NJM78LOSU,     C750   MB40568PF     C760   MB40568PF     C761   NJM78LOSU,     C762   AN78N09     C762   AN78N09     C6802   T160941-1     C6803   UPD422806;     C6803   UPD422806;     C6804   C6803   UPD422806;     C6804   UPD422806;     C6804   UPD422806;     C6804   UPD422806;     C6804   UPD422806;     C6804   UPD422806;     C6804   UPD422806;     C6806   UPD42806;      10	1						
C851   NJM78L05U,     C852   NJM78L05U,     C853   MC74HC405:     C853   MC74HC405:     C855   NJM084M     C855   NJM084M     C856   AD848JR     C866   CXD1175AM     C861   NJM78L05U,     C701   NJM78L05U,     C702   NJM78L05U,     C703   MC74HC405:     C705   NJM78L05U,     C710   MB40568PF     C711   NJM78L05U,     C712   AN78N09     C713   T74HC7541,     C755   NJM78L05U,     C755   NJM78L05U,     C755   NJM78L05U,     C755   NJM78L05U,     C756   AD848JR     C756   AD848JR     C757   NJM78L05U,     C758   MC74HC405:     C758   MC74HC405:     C759   NJM78L05U,     C750   MB40568PF     C761   NJM78L05U,     C762   AN78N09     C801   UFD422806:     C802   T160941-1-     C803   UFD422806:     C803   UFD422806:     C804   C804   C806		<u> </u>		2SB709A-R	TRANSISTOR	3	
C652   NJM79L05U,     C653   MC74HC405:     C655   NJM084M     C656   AD848JR     C666   AD848JR     C666   KJM178L05U,     C701   NJM78L05U,     C702   NJM79L05U,     C702   NJM79L05U,     C703   MC74HC405:     C705   NJM084M     C706   AD848JR     C710   MB40568PF     C711   NJM78L05U,     C712   AN78N09     C713   T74HCT541,     C751   NJM79L05U,     C755   NJM084M     C755   NJM084M     C756   AD848JR     C756   AD848JR     C757   NJM084M     C758   AD848JR     C759   AN78N09     C759   AN78N09     C751   NJM78L05U,     C752   AN78N09     C753   AD848JR     C760   MB40568PF     C761   NJM78L05U,     C762   AN78N09     C762   A	AF IC	1	Q655	2SD601A-R	TRANSISTOR	1	
C652   NJM79L05U,     C653   MC74HC405:     C655   NJM084M     C656   AD848JR     C666   AD848JR     C666   KJM78L05U,     C702   NJM78L05U,     C702   NJM78L05U,     C703   MC74HC405:     C705   NJM084M     C706   AD848JR     C710   MB40568PF     C711   NJM78L05U,     C712   AN78N09     C713   T74HCT541,     C751   NJM79L05U,     C755   NJM084M     C755   NJM084M     C756   AD848JR     C757   NJM78L05U,     C758   MC74HC405:     C759   NJM78L05U,     C751   NJM78L05U,     C752   NJM084M     C753   MC74HC405:     C754   AD848JR     C756   AD848JR     C766   MB40568PF     C761   NJM78L05U,     C762   AN78N09     C762   AN78N09     C763   AN78N09     C763   AN78N09     C764   C764     C765   NJM78L05U,     C765   NJM78L05U,     C766   MB40568PF     C766   MB40568PF     C767   C768     C768   C768     C768   C768     C768   C768     C768   C768     C768   C768     C768   C768     C768   C768     C768   C768     C768   C768     C768   C768     C	A IC	1	Q656 :	2SK198-R	TRANSISTOR	1	
10853   MC74HC405:     10855   NJM084M     10856   AD848JR     10866   CXD1175AM     10861   NJM78L05U,     10702   NJM79L05U,     10703   MC74HC405:     10705   NJM084M     10706   AD848JR     10706   AD848JR     10710   MB40568PF     10711   NJM78L05U,     10712   AN78N09     10713   T74HC1541,     10751   NJM78L05U,     10752   NJM084M     10755   NJM084M     10756   AD848JR     10756   AD848JR     10756   AD848JR     10756   AD848JR     10756   AD848JR     10756   AD848JR     10756   AD848JR     10756   AD848JR     10760   MB40568PF     10761   NJM78L05U,     10762   AN78N09     10762   AN78N09     10763   AN78N09     10764   AN78N09     107660   MB40568PF     107661   NJM78L05U,     10801   T160941-110803     10802   T160941-110803     10804   T160941-110803     10804   T160941-110803     10806   T160941-110803     10806   T160941-110803     10806   T160941-110803     10806   T160941-110803     10806   T160941-110803     10807   T160941-110803	A IC	1	Q701	2SD601A-R	TRANSISTOR	1	
10855   NJM084M   10856   AD848JR   10860   CXD1175AM   10660   CXD1175AM   10661   NJM78L05U, 10702   NJM79L05U, 10703   MC74HC405   10703   MC74HC405   10706   AD848JR   10710   MB40568PF   10711   NJM78L05U, 10712   AN78N09   10713   T74HC1541, 10751   NJM78L05U, 10752   NJM79L05U, 10755   NJM084M   10756   AD848JR   10760   MB40568PF   10761   NJM78L05U, 10752   AN78N09   10762   A		1		2SB709A-R	TRANSISTOR	1	
IC656         AD848JR           IC660         GXD1175AM           IC661         NJM78LOSU           IC701         NJM78LOSU           IC702         NJM78LOSU           IC703         MC74HC4OS           IC705         NJM084M           IC706         AD848JR           IC710         MB40568PF           IC711         NJM78LOSU           IC712         AN78NO9           IC713         T74HC1541           IC751         NJM78LOSU           IC752         NJM78LOSU           IC753         MC74HC405           IC755         NJM084M           IC756         AD848JR           IC760         MB40568PF           IC761         NJM78LOSU           IC762         AN78LOSU           IC763         MC74HC405           IC764         AD848JR           IC765         AD848JR           IC766         AD848JR           IC767         AN78LOSU           IC768         AN78LOSU           IC769         AN78LOSU           IC760         MB40568PF           IC761         NJM78LOSU           IC762         AN78LOSU <td>10</td> <td><u> </u></td> <td></td> <td>2SD601A-R</td> <td>TRANSISTOR</td> <td>1</td> <td></td>	10	<u> </u>		2SD601A-R	TRANSISTOR	1	
C6860   CXD1175AM     C6861   NJM78LOSU,     C702   NJM79LOSU,     C702   NJM79LOSU,     C703   MC74HC405     C705   NJM084M     C706   AD848JR     C710   MB40568PF     C711   NJM78LOSU,     C712   AN78N09     C713   T74HCT541,     C752   NJM78LOSU,     C753   MC74HC405     C755   NJM084M     C756   AD848JR     C760   MB40568PF     C761   NJM78LOSU,     C752   NJM78LOSU,     C753   MC74HC405     C755   NJM084M     C756   AD848JR     C760   MB40568PF     C761   NJM78LOSU,     C762   AN78N09     C801   UPD422806;     C802   T160941-1     C803   UPD422806;     C804   C7600   C76004     C800   T160941-1     C800   UPD422806;     C800   C76004     C80004     C8004     C80004     C						H	
IC861   NJM78L05U.     IC701   NJM78L05U.     IC702   NJM78L05U.     IC702   NJM78L05U.     IC703   MC74HC405.     IC705   NJM084M     IC706   AD848JR     IC710   MB40568PF     IC711   NJM78L05U.     IC712   AN78N09     IC713   T74HC7541.     IC752   NJM78L05U.     IC753   MC74HC405.     IC755   NJM084M     IC756   AD848JR     IC756   AD848JR     IC760   MB40568PF     IC761   NJM78L05U.     IC762   AN78N09     IC762   AN78N09     IC762   AN78N09     IC801   UPD422806.     IC802   T160941-1	10	1		2SB709A-R	TRANSISTOR	-	
10701 NJM78L05U; 10702 NJM79L05U; 10703 M074H0405: 10705 NJM084M 10706 AD848JR 10710 M840568PF 10711 NJM78L05U; 10712 AN78N09 10713 T74H0T541; 10751 NJM78L05U; 10752 NJM79L05U; 10755 NJM084M 10756 AD848JR 10756 AD848JR 10756 M640568PF 10761 NJM78L05U; 10752 AN78N09 10756 AD848JR 10760 M840568PF 10761 NJM78L05U; 10762 AN78N09 10762 AN78N09 10762 AN78N09 10801 UPD422806; 10802 T160941-1	10	1		2SD601A~R	TRANSISTOR	1	
10702   NJM79L05U,     10703   MC74HC405;     10705   NJM084M     10706   AD848JR     10706   AD848JR     10710   MB40568PF     10711   NJM78L05U,     10712   AN78N09     10713   T74HC1541,     10751   NJM79L05U,     10752   NJM79L05U,     10755   MC74HC405;     10756   AD848JR     10756   AD848JR     10760   MB40568PF     10761   NJM78L05U,     10762   AN78N09     10762   AN78N09     10801   UPD422806;     10802   T160941-1	A IC	1	0706	2SK198-R	TRANSISTOR	_1	
10703 MC74HC405: 10705 NJM084M 10706 AD848JR 10710 MB40568PF 10711 NJM78L05U; 10712 AN78N09 10713 T74HC1541; 10751 NJM78L05U; 10752 NJM78L05U; 10755 NJM084M 10756 AD848JR 10760 MB40568PF 10761 NJM78L05U; 10762 AN78N09 10762 AN78N09 10762 AN78N09 10762 AN78N09 10762 AN78N09 10762 AN78N09 10762 AN78N09	A IC	1	Q751	2SD601A-R	TRANSISTOR	1	
10703 MC74HC405: 10705 NJM084M 10706 AD848JR 10710 MB40568PF 10711 NJM78L05U; 10712 AN78N09 10713 T74HC1541; 10751 NJM78L05U; 10752 NJM78L05U; 10755 NJM084M 10756 AD848JR 10760 MB40568PF 10761 NJM78L05U; 10762 AN78N09 10762 AN78N09 10762 AN78N09 10762 AN78N09 10762 AN78N09	A IC	1	Q752	2SB709A-R	TRANSISTOR	1	
10705   NJM084M   10706   AD848JR   10710   MB40568FF   10711   NJM78L05U, 10712   AN78N09   10712   NJM78L05U, 10752   NJM78L05U, 10753   MC74HC405: 10755   NJM084M   10756   AD848JR   10760   MB40568FF   10761   NJM78L05U, 10761   NJM78L05U, 10762   AN78N09   10761   NJM78L05U   10762   AN78N09   10801   UPD422806; 10802   T160941-10803   UPD422806;		1	Q753	2SD601A-R	TRANSISTOR	1	
C706   AD848JR   C710   M840568PF   C711   NJM78LOSU, C712   AN78N09   C713   T74HCT541, C751   NJM78LOSU, C753   MC74HC405; C755   NJM084M   C756   AD848JR   C760   M840568PF   C761   NJM78LOSU, C761   NJM78LOSU, C768   AD848JR   C760   M840568PF   C761   NJM78LOSU, C760   M840568PF   C761   NJM78LOSU, C760   AN78N09   C801   UPD422806; C802   T160941-1-C803   UPD422806;		<del></del>		2SB709A-R	TRANSISTOR	1	
C710	10					-	<del></del>
C711 NJM78L05U, C712 AN78N09 IC713 T74HC7541, IC751 NJM78L05U, IC752 NJM79L05U, IC755 NJM084M IC756 AD848JR IC760 MB40568PF IC761 NJM78L05U, IC762 AN78N09 IC762 AN78N09 IC76801 UPD422806; IC802 T160941-1	10	1		2SD601A-R	TRANSISTOR	1	
10712 AN78N09 10713 T74H0T541. 10751 NJM78L05U. 10752 NJM79L05U. 10753 M074H0405: 10755 NJM084M 10756 AD848JR 10760 M840568PF 10761 NJM78L05U. 10762 AN78N09 10760 UPD422806: 10802 T160941-1	10	1	Q756	2SK198-R	TRANSISTOR	1	
C712   AN78N09   C713   T74HCT541,	A IC	1				Ĺ	
10713 T74HCT541, 10751 NJM78L05U, 10752 NJM79L05U, 10753 M074HC405; 10755 NJM084M 10756 AD848JR 10760 MB40568PF 10760 NJM78L05U, 10762 AN78N09 10801 UPD42280G; 10802 T160941-1-	IC	1	QR151	MUN2212	TRANSISTOR-RESISTOR	1	1
C751   NJM78L05U,     C752   NJM79L05U,     C753   MC74HC405;     C755   NJM084M     C756   AD848JR     C760   MB40588PF     C760   MJM78L05U,     C762   AN78N09     C801   UPD42280G;     C802   T160941-1     C803   UPD42280G;     C803   UPD42280G;     C804   UPD42280G;     C805   UPD42280G;     C806   UPD42280G;     C807   C807   C807     C808   UPD42280G;     C809   UPD4280G;     C809   UPD480G;     C809   UPD480G;     C809   UPD480G;     C809   UPD480G;     C809   UPD480G;     C809   UPD480G;     UPD480G;     C809   UPD480G;     C809   UPD480G;     C809   UPD480G;     C809   UPD480G;     C809   UPD480G;     C809   UPD480G;     C809   UPD480G;     C809   UPD480G;     C809   UPD480G;		11		MUN2212	TRANSISTOR-RESISTOR	1	·
10752 NJM79L05U, 10753 MC74HC405: 10755 NJM084M 10756 AD848JR 10760 MB40568PF 10761 NJM78L05U, 10762 AN78N09 10801 UPD42280G; 10802 T160941-1						<del>'</del>	1
10753 MC74HC405: 10755 NJM084M 10756 AD848JR 10760 MB40568PF 10761 NJM78L05U 10762 AN78N09 10801 UPD422806: 10802 T160941-1- 10803 UPD422806:			Do-Do	ED IRCEVADAA	M. RESISTOR CH 1/10W 0	7	,
C755 NJM084M C758 AD848JR IC760 MB40568PF IC761 NJM78LO5U, IC762 AN78NO9 IC801 UPD422806; IC802 T160941-1 IC803 UPD422806;						-	
C756 AD848JR C760 MB40568PF C761 NJM78L05U, C762 AN78N09 C801 UPD422806; C802 T160G41-1- C803 UPD422806;		1				13	
C760 MB40568PF C761 NJM78L05U, C762 AN78N09 C801 UPD422806; C802 T160G41-1- C803 UPD422806;	IC	1	<del></del>			32	
C760 MB40568PF IC761 NJM78L05U IC762 AN78N09 IC801 UPD42280G IC802 T160G41-1 IC803 UPD42280G	IC	1	R101-12	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	12	II
C761   NJM78L05U;   C762   AN78N09   C801   UPD42280G;   C802   T160G41-1.   C803   UPD42280G;   UPD42280G;   C803   UPD42280G;   C804   C805   UPD42280G;   UPD42280G;   C805   UPD42280G;   UPD4280G;   UPD4	10	1	R113	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
10762 AN78N09 10801 UPD42280G 10802 T160G41-1 10803 UPD42280G		1			M. RESISTOR CH 1/10W 100	1	
UPD42280G 1 C802 T160G41-14 1 C803 UPD42280G	10	1			M. RESISTOR CH 1/10W 10K	2	
10802 T160G41-14 10803 UPD42280G						_	
C803 UPD42280G		1	· · · · · · · · · · · · · · · · · · ·		M. RESISTOR CH 1/10W 10K	2	
	437 10	1			M. RESISTOR CH 1/10W 100	1	<del></del>
		1	R251	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1	
1		1	R252	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
C854 CG25123-5		1			M. RESISTOR CH 1/10W 5.6K	1	
	3 IC IC	2			M. RESISTOR OH 1/10W 1K	1	
C855, 56 CY7C19920	3 IC IC 108 IC					-	
C857, 58 74F244SJ	3   1C   1C   106   1C   2C   1C   1C	2			M. RESISTOR CH 1/10W 100	1	
	3 IC IC 108 IC				M. RESISTOR CH 1/10W 330	1	
L1, L2 VLP0133	3   1C   1C   106   1C   2C   1C   1C	2	R257	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
51, 52 VLP0133	3   1C   1C   106   1C   2C   1C   1C		R258, 59	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K	2	
.251-54 VLQ0319K1	3   10   10   100	2			M. RESISTOR CH 1/10W 100	1	
	3   1C   1C   108   1C   2C   1C   1C   1C   1C   1C   1C		[		M. RESISTOR CH 1/10W 330	1	<del> </del>
.255 VLQ0133J4	3   1C   1C   1OS   1C   1OS   1C   1OS   1C   1C   1C   1C   1C   1C   1C   1	100UH 4	DO#4		m. N	2	
.256 VLQ0319K1	3   1C   1C   108   1C   2C   1C   1C   1C   1C   1C   1C	100UH 4 470UH 1	······				
301, 02 VL00319K1	3   IC   IC   IC   IC   IC   IC   IC   I	100UH 4 470UH 1 100UH 1	R262, 63	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K		1
.351, 52 VLQ0319K1	3   IC   IC   IC   IC   IC   IC   IC   I	100UH 4 470UH 1 100UH 1 100UH 2	R262. 63 R264	ERJ6GEYG102 ERJ6GEYF561	M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 560	1	
	3   IC   IC   IC   IC   IC   IC   IC   I	100UH 4 470UH 1 100UH 1	R262. 63 R264	ERJ6GEYG102 ERJ6GEYF561	M. RESISTOR CH 1/10W 1K		

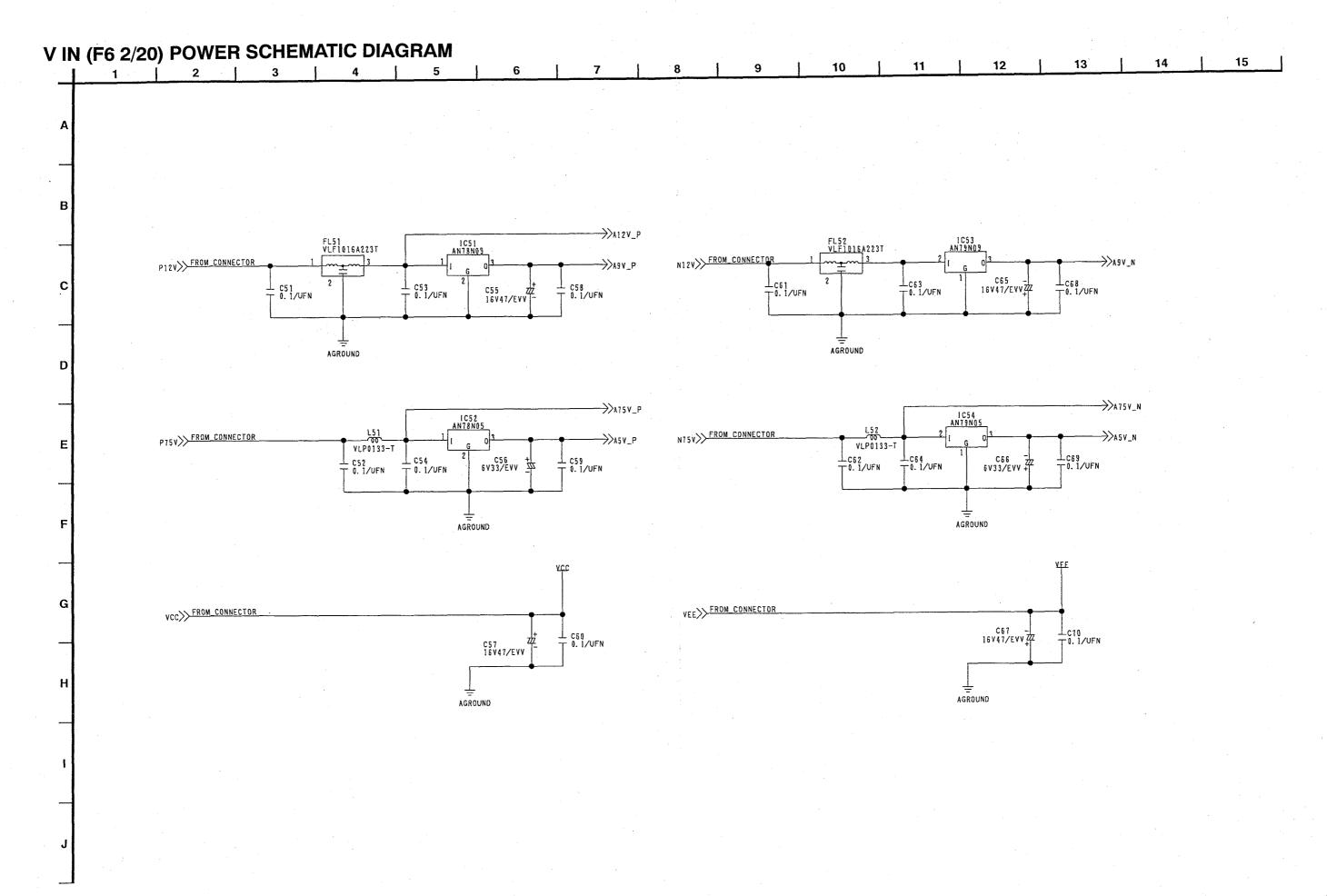
V	FP	83	13	q	R	Δ

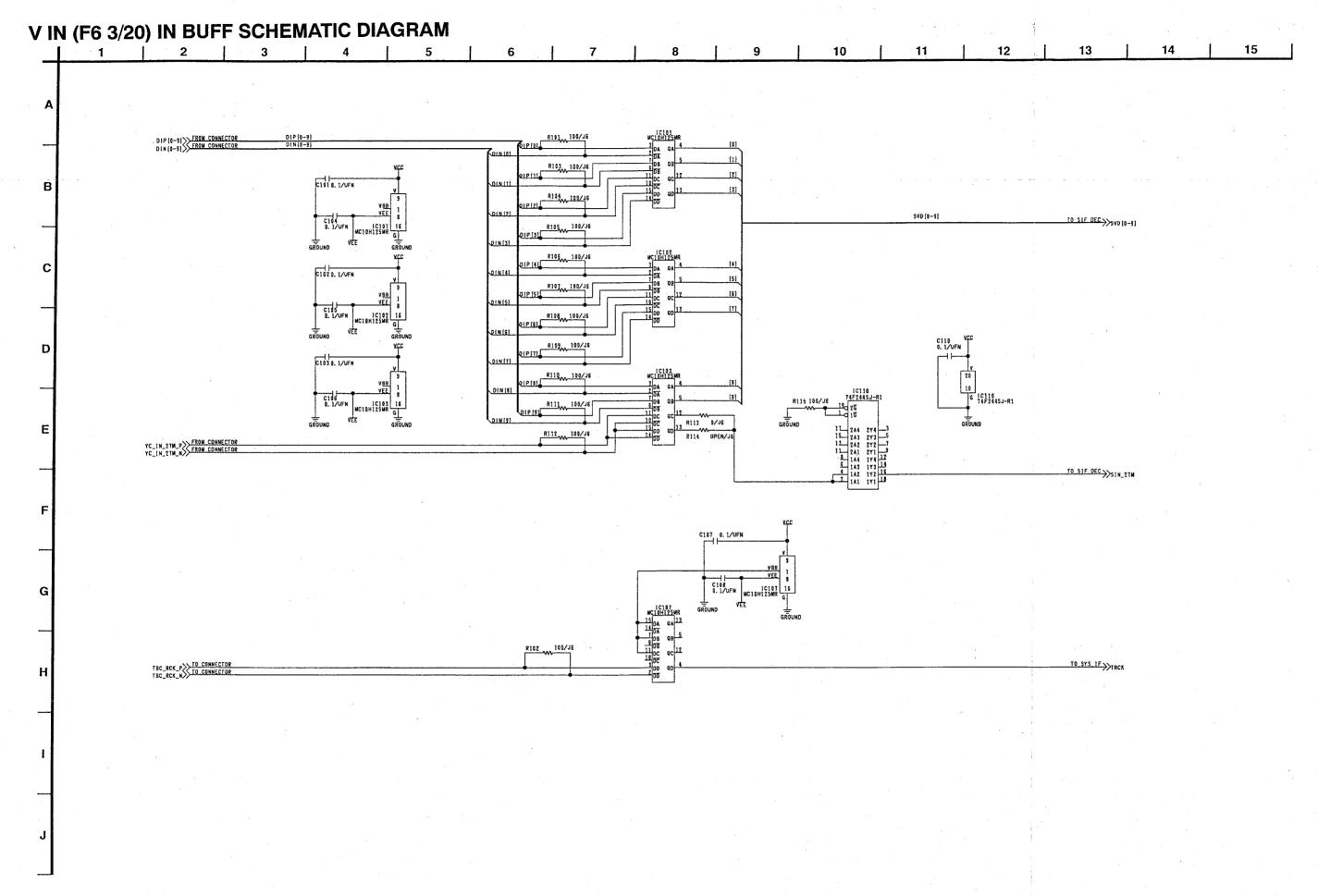
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Ref. No.	Part No.	Part Name & Description	cs Remarks	Ref. No.		Part Name & Description		Remarks
R266, 67	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	2	R430	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	
R268	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	R431, 32	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	2	
R269		M. RESISTOR CH 1/10W 220K	1	R433, 34	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
		M. RESISTOR CH 1/10W 680K		R435, 36	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	-	
R270					ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K		
R271-73		M. RESISTOR CH 1/10W 10K	3	R441, 42			-	
R274	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	R451	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K		
R275	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	1	R452	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R276	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	R453	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
		M. RESISTOR CH 1/10W 390K	1	R454	ERJ6GEYG821	M. RESISTOR CH 1/10W 820	1	
R301							1	
R302		M. RESISTOR CH 1/10W 150K	11	R455			-	
R303	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	R456	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	-	·
R304	ERJ6GEYG220	M. RESISTOR CH 1/10W 22	1	R457	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R305		M. RESISTOR CH 1/10W 1K	1	R458, 59	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R307		M. RESISTOR CH 1/10W 1.5K	1	R460, 61		M. RESISTOR CH 1/10W 1K	2	
			<del>                                     </del>				1	
R308		M. RESISTOR CH 1/10W 1.2K	1	R462				
R309, 10	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	R463		M. RESISTOR CH 1/10W 100	1	
R311	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	R464, 65	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	2	
R313, 14	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	R466	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	
		M. RESISTOR CH 1/10W 10K	2	R467	FRJBGFYG821	M. RESISTOR CH 1/10W 820	1	1
		<del> </del>				M. RESISTOR CH 1/10W 8. 2K	2	
R318		M. RESISTOR CH 1/10W 0	1	R468, 69				
R319	ERJ6GEYG682	M. REISITOR CH 1/10W 6.8K	1	R470	<del></del>	M. RESISTOR CH 1/10W 1K		
R353	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	R471-74	ERJ6GEYG121	M. RESISTOR CH 1/10W 120	4	
R354		M. RESISTOR CH 1/10W 330	1	R475-78	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	4	· <u> </u>
R355		M. RESISTOR CH 1/10W 120	1	R479		M. RESISTOR CH 1/10W - 15K	1	
		M. RESISTOR CH 1/10W 3.3K	1	R480, 81		M. RESISTOR CH 1/10W 100	2	
R356			1		<del> </del>	M. RESISTOR CH 1/10W 2.2K	2	
R357		M. RESISTOR CH 1/10W 58	1	R482, 83	ERJ6GEYG222		-	
R358	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	R484, 85	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	2	
R359	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	R486, 87	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R360		M. RESISTOR CH 1/10W 560	1	R488-91	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	4	
R362		M. RESISTOR CH 1/10W 56	1	R492-99		M. RESISTOR CH 1/10W 1.5K	8	
							+-	
R363		M. RESISTOR CH 1/10W 100	1	R500-03	<del></del>			
R365	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R504-07		M. RESISTOR CH 1/10W 47	4	
R366	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	R508-11	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	4	
R367	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R512-15	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	4	
R368		M. RESISTOR CH 1/10W 390	1	R516-19		M. RESISTOR CH 1/10W 4.7K	4	
			1	<u> </u>	<del> </del>	M. RESISTOR CH 1/10W 100	4	
R369		M. RESISTOR CH 1/10W 680	<u> </u>	R520-23			-	
R370	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	R526		M. RESISTOR CH 1/10W 10K	1	
R371	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R527	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R373	ERJ6GEYG821	M. RESISTOR CH 1/10W 820	1]	R528	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R375		M. RESISTOR CH 1/10W 390	1	R530	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R376		M. RESISTOR CH 1/10W 100	1	R531-33		M. RESISTOR CH 1/10W 2.2K	3	
			1	R534		M. RESISTOR CH 1/10W 220K	1	
R377		M. RESISTOR CH 1/10W 680	3					<del> </del>
R379	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1	R535		M. RESISTOR CH 1/10W 680K	1	
R380	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	R536~38	ERJ8GEYG103	M. RESISTOR CH 1/10W 10K	3	
R381, 82	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	R539	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	1
R384		M. RESISTOR CH 1/10W 330	1	R541	FRJBGEYG103	M. RESISTOR CH 1/10W 10K	1	
		M, RESISTOR CH 1/10W 1K	1	R546		M. RESISTOR CH 1/10W 1K	1	
R385							1	
R386		M. RESISTOR CH 1/10W 100	1	R547				
R387	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	11	R548		M. RESISTOR CH 1/10W 0	1	ļ
R390	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	R551	ERJBGEYG103	M. RESISTOR CH 1/10W 10K	1	
R393, 94	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	R552	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	<u> </u>
		M. RESISTOR CH 1/10W 330	· · · · · · · · · · · · · · · · · · ·	R553	ERJ8GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R401			1	R554	<del></del>	M. REISITOR CH 1/10W 6.8K	1	
		F	<del></del>					
R402		M. RESISTOR CH 1/10W 4. 7K	1	R555		M. RESISTOR CH 1/10W 4.7K		
R403	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R556		M. RESISTOR CH 1/10W 1K	-	
R404	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	R557, 58	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	2	
R405	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7K	1	R559, 60	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	2	·
R406		M. RESISTOR CH 1/10W 18K	1	R561		M. RESISTOR CH 1/10W 3.3K	1	
			1	R562, 63		M. RESISTOR CH 1/10W 15K	2	
R407				1			╆	<u> </u>
R408		M. RESISTOR CH 1/10W 12K	1	R564		M. RESISTOR CH 1/10W 68K	1	ļ
R409	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	R565	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	
R410-12	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	3	R566	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	
R413		M, RESISTOR CH 1/10W 33K	1	R567		M. RESISTOR CH 1/10W 0	1	
		M. RESISTOR CH 1/10W 4.7K	1	R571	<del></del>	M. RESISTOR CH 1/10W 3.3K	1	
R414							1	
R415		M. RESISTOR CH 1/10W 3.3K	1	R572		M. REISITOR CH 1/10W 6.8K	_	<u> </u>
R416	ERJ6GEYJ274	M. RESISTOR CH 1/10W 270K	1	R573, 74		M. RESISTOR CH 1/10W 1.5K	2	
R417	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	R575	ERJ6GEYG682	M. REISITOR CH 1/10W 6.8K	1	
R418	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1	R576	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R419			1	R577		M. RESISTOR CH 1/10W 100	1	
				R578		M. RESISTOR CH 1/10W 100K	1	
R420, 21		M. RESISTOR CH 1/10W 10K	2				<u> </u>	
R422			1	R579		M. RESISTOR CH 1/10W 22K	1	
R423, 24	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	R581		M. RESISTOR CH 1/10W 1.5K	1	
R426, 27	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	R582	ERJ6GEYG682	M. REISITOR CH 1/10W 6.8K	1	
R428		M. RESISTOR CH 1/10W 1.5K	1	R583, 84		M. RESISTOR CH 1/10W 0	2	
R429		M. RESISTOR CH 1/10W 56K	1	R586		M. RESISTOR CH 1/10W 0	-	
11440	EWOOR I 4009		<del></del>				<del>⊢</del>	
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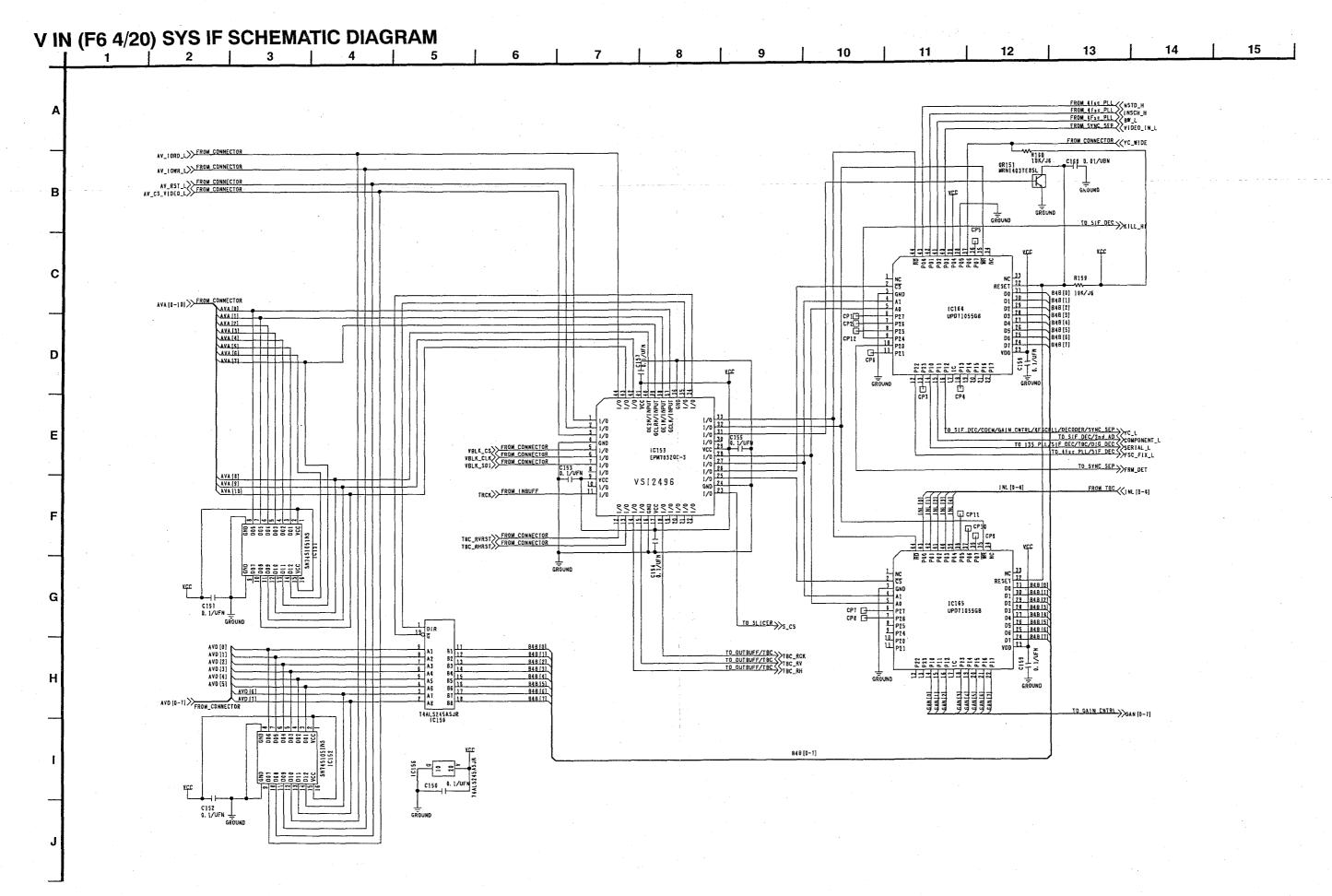
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Ref. No.	Part No.	Part Name & Descriptio	rPc.	Remarks Ref. No.	Part No.	Part Name & Description	rPo	s Remarks
R601-03		M. RESISTOR CH 1/10W 1K		R779		M. RESISTOR CH 1/10W 2.2		11
R604-06	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	-	R801		M. RESISTOR CH 1/10W 10	-	1
				R803		M. RESISTOR CH 1/10W		1
R607	· · · · · · · · · · · · · · · · · · ·		+	R806			+-	1
	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K			ERJEGEYOROO		-	8
	·	M. RESISTOR CH 1/10W 1.5K	-	R808-15			_	7
R651		M. RESISTOR CH 1/10W 100	+-	R816-22	ERJ6GEYG391		-	1
R652		M. RESISTOR CH 1/10W 10K	+-	R823		M. RESISTOR CH 1/10W 3.3	-	<u> </u>
R653		M. RESISTOR CH 1/10W 1K	+-	R851		M. RESISTOR CH 1/10W 100	-	1
R654	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	R852	ERJ6GEYG271	M. RESISTOR CH 1/10W 27		1
R655	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1	R853	ERJ6GEYG101	M. RESISTOR CH 1/10W 10		1
R656	ERJ6GEYG102	M. RESISTOR-CH-1/10W1K	-1	R870-73	ERJ6GEYG101 -	MRESISTOR-CH-1/10W 100	-	4
R657	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1				┸	
R658	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	1	TG1-G6	VJR0646	TEST POINT		6
R659	ERJ8GEYG394	M. RESISTOR CH 1/10W 390K	1		1	<u>.</u>		
R660	ERJ6GEYG154	M. RESISTOR CH 1/10W 150K	1	TP301	VJR0646	TEST POINT		1
R661		M. RESISTOR CH 1/10W 180	1	TP401	VJR0646	TEST POINT	Т	1
R662	f	M. RESISTOR CH 1/10W 1K	-	TP402	EYF6CU	TEST POINT	1	1
	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	+	TP403	VJR0646	TEST POINT	1	1
	ļ		+-	TP405	VJR0646	TEST POINT	+	1
R666		M. RESISTOR CH 1/10W 100			VJR0646	TEST POINT		1
R667	<del></del>	M. RESISTOR CH 1/10W 1K	+	TP451			-	3
R668, 69		M. RESISTOR CH 1/10W 100		TP551-53		TEST POINT	+	
R670		M. RESISTOR CH 1/10W 1M	+	TP651	VJR0646	TEST POINT	+-	1
R671	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	-	TP701	VJR0646	TEST POINT	$\perp$	1
R672	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	TP751	VJR0646	TEST POINT	1	1
R673	ERJ8GEYG105	M. RESISTOR CH 1/10W 1M	1 1				$\perp$	
R674		M, RESISTOR CH 1/10W 33K	1	VL551	VLQ0415	COIL	$\perp$	1
R675		M. RESISTOR CH 1/10W 0	1				Ι	
R676	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	_	VR251	VRV0064B502	V. RESISTOR 5	1	1
R701	<del></del>	M. RESISTOR CH 1/10W 10K	+	VR301		V. RESISTOR 5	7	1
R702	ļ	M. REISITOR CH 1/10W 6.8K		VR351	VRV0112B101	V. RESISTOR 100	:	11
		M. RESISTOR CH 1/10W 27K	-	VR352	VRV0064B201	V. RESISTOR 20	_	1
R703			-		VRV0064B501	V. RESISTOR 50		2
R704	<del> </del>	M. RESISTOR CH 1/10W 1.5K	-				-	2
R705, 06		M. RESISTOR CH 1/10W 470			VRV0064B102	V. RESISTOR 11		
R707, 08	ERJ8GEYG152	M. RESISTOR CH 1/10W 1.5K	2			V. RESISTOR 5	-	3
R709	ERJ8GEYG331	M. RESISTOR CH 1/10W 330	1 1	VR459-66		V. RESISTOR 11		8
R710	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K		VR551	VRV0064B202	V. RESISTOR 2	-	1
R711	ERJ8GEYF561	M. RESISTOR CH 1/10W 580	1	VR552	VRV0064B502	V. RESISTOR 5		1
R712	ERJ8GEYG394	M. RESISTOR CH 1/10W 390K	1	VR651	VRV0064B102	V. RESISTOR 11		1
R713	ERJ6GEYJ274	M. RESISTOR CH 1/10W 270K	1	VR652	VRV0084B502	V. RESISTOR 5		1
R714	<del></del>	M. RESISTOR CH 1/10W 390	+	VR701, 02	VRV0064B102	V. RESISTOR 11		2
R715		M. RESISTOR CH 1/10W 1K		VR703		V. RESISTOR 5		1
R717	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7K	+		VRV0064B102	V. RESISTOR		2
	<del> </del>	M. RESISTOR CH 1/10W 1.2K	+-	VR753	VRV0084B502	V. RESISTOR 5		1
R718	ERJ6GEYG122				**************************************	7. KESTSTON	+	1
R719	ERJ6GEYG101	M. RESISTOR CH 1/10W 100		X401	VSX0270	CRYSTAL OSCILLATOR	+	1
R720	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	-		V3XU270	CRISTAL GOULLATOR	+-	-
R721, 22	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	+				+	
R723	ERJ6GEYG105	M. RESISTOR CH 1/10W 1N	+				+-	
R724	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	+				+-	
R725	<u> </u>	M. RESISTOR CH 1/10W 10K	-		<b></b>		+	
R726			1 1				+	<u> </u>
R727, 28	ERJ6GEYF123	M. RESISTOR CH 1/10W 12K	2				1	
R729	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1				$\perp$	
R751	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1				L	
R752	ļ	M. REISITOR CH 1/10W 6.8K	1				╧	
R753		M. RESISTOR CH 1/10W 27K					J	
R754	<del></del>	M. RESISTOR CH 1/10W 1.5K	-				Τ	
		M. RESISTOR CH 1/10W 470	+-		1	<u> </u>	7	
R757, 58	<del></del>	M. RESISTOR CH 1/10W 1.5K					T	1
		M. RESISTOR CH 1/10W 1.3K	-		<b>†</b>	<del></del>	$\dagger$	
R759			-		1		+	
R760		M. RESISTOR CH 1/10W 1.5K	+	<u> </u>	+		+	
	<del></del>	M. RESISTOR CH 1/10W 560	<del>-</del>		-		+	<del></del>
R761	LED IGOEVAGO A	M. RESISTOR CH 1/10W 390K			-		+	<del></del>
R761 R762		1	: 1 1		1		+	<del></del>
R761	ERJ6GEYJ274	M. RESISTOR CH 1/10W 270K		: 11	,	i	4	
R761 R762	ERJ6GEYJ274	M. RESISTOR CH 1/10W 270K M. RESISTOR CH 1/10W 390					+	
R761 R762 R763	ERJ6GEYJ274 ERJ6GEYG391		1				1	
R761 R762 R763 R764	ERJ6GEYJ274 ERJ6GEYG391 ERJ6GEYG102	M. RESISTOR CH 1/10W 390	1				1	
R761 R762 R763 R764 R765	ERJ6GEYJ274 ERJ6GEYG391 ERJ6GEYG102 ERJ6GEYG272	M. RESISTOR CH 1/10W 390 M. RESISTOR CH 1/10W 1K	1 1				+	
R761 R762 R763 R764 R765 R767 R768	ERJ6GEYJ274 ERJ6GEYG391 ERJ6GEYG102 ERJ6GEYG272 ERJ6GEYG122	M. RESISTOR CH 1/10W 390 M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 2. 7K M. RESISTOR CH 1/10W 1. 2K	1 1					
R761 R762 R763 R764 R765 R767 R768 R769	ERJ6GEYJ274 ERJ6GEYG391 ERJ6GEYG102 ERJ6GEYG272 ERJ6GEYG122 ERJ6GEYG101	M. RESISTOR CH 1/10W 390 M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 2. 7K M. RESISTOR CH 1/10W 1.2K M. RESISTOR CH 1/10W 100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
R761 R762 R763 R764 R765 R767 R768 R769	ERJ6GEYJ274 ERJ6GEYG391 ERJ6GEYG102 ERJ6GEYG272 ERJ6GEYG122 ERJ6GEYG101 ERJ6GEYG102	M. RESISTOR CH 1/10W 390 M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 2. 7K M. RESISTOR CH 1/10W 1.2K M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 1K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
R761 R762 R763 R764 R765 R767 R768 R769 R770	ERJ6GEYJ274 ERJ6GEYG391 ERJ6GEYG102 ERJ6GEYG122 ERJ6GEYG101 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG101	M. RESISTOR CH 1/10W 390 M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 1.2K M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
R761 R762 R763 R764 R765 R767 R768 R769 R770 R771, 72	ERJ66EYJ274 ERJ66EYG391 ERJ66EYG102 ERJ66EYG122 ERJ66EYG101 ERJ66EYG102 ERJ66EYG102 ERJ66EYG101 ERJ66EYG105	M. RESISTOR CH 1/10W 390 M. RESISTOR CH 1/10W 1.K M. RESISTOR CH 1/10W 2.7K M. RESISTOR CH 1/10W 1.2K M. RESISTOR CH 1/10W 1.0K M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 11W	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
R761 R762 R763 R764 R765 R767 R768 R769 R770 R771, 72 R773	ERJ6GEYJ274 ERJ6GEYG391 ERJ6GEYG102 ERJ6GEYG272 ERJ6GEYG101 ERJ6GEYG101 ERJ6GEYG102 ERJ6GEYG105 ERJ6GEYG105 ERJ6GEYG101	M. RESISTOR CH 1/10W 390 M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 2. 7K M. RESISTOR CH 1/10W 1. 2K M. RESISTOR CH 1/10W 1.0K M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100 M. RESISTOR CH 1/10W 100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
R761 R762 R763 R764 R765 R767 R768 R769 R770 R771, 72 R773 R774	ERJ6GEYJ274 ERJ6GEYG391 ERJ6GEYG102 ERJ6GEYG272 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG101 ERJ6GEYG105 ERJ6GEYG105 ERJ6GEYG105 ERJ6GEYG106 ERJ6GEYG106 ERJ6GEYG107	M. RESISTOR CH 1/10W 390 M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 2. 7K M. RESISTOR CH 1/10W 1. 2K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
R761 R762 R763 R764 R765 R767 R768 R770 R771, 72 R773 R774 R775	ERJGGEYJ274 ERJGGEYG391 ERJGGEYG192 ERJGGEYG272 ERJGGEYG122 ERJGGEYG101 ERJGGEYG101 ERJGGEYG101 ERJGGEYG101 ERJGGEYG101 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103	M. RESISTOR CH 1/10W 390 M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 2. 7K M. RESISTOR CH 1/10W 1.2K M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 11W	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
R761 R762 R763 R764 R765 R767 R768 R770 R770 R771, 72 R773 R774 R775	ERJGGEYJ274 ERJGGEYG391 ERJGGEYG192 ERJGGEYG272 ERJGGEYG122 ERJGGEYG101 ERJGGEYG101 ERJGGEYG101 ERJGGEYG101 ERJGGEYG101 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103	M. RESISTOR CH 1/10W 390 M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 2. 7K M. RESISTOR CH 1/10W 1. 2K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 10K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
R761 R762 R763 R764 R765 R767 R768 R770 R770 R771, 72 R773 R774 R775	ERJGGEYJ274 ERJGGEYG391 ERJGGEYG192 ERJGGEYG272 ERJGGEYG122 ERJGGEYG101 ERJGGEYG101 ERJGGEYG101 ERJGGEYG101 ERJGGEYG101 ERJGGEYG103 ERJGGEYG103 ERJGGEYG103	M. RESISTOR CH 1/10W 390 M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 2. 7K M. RESISTOR CH 1/10W 1.2K M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 10C M. RESISTOR CH 1/10W 11W	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					

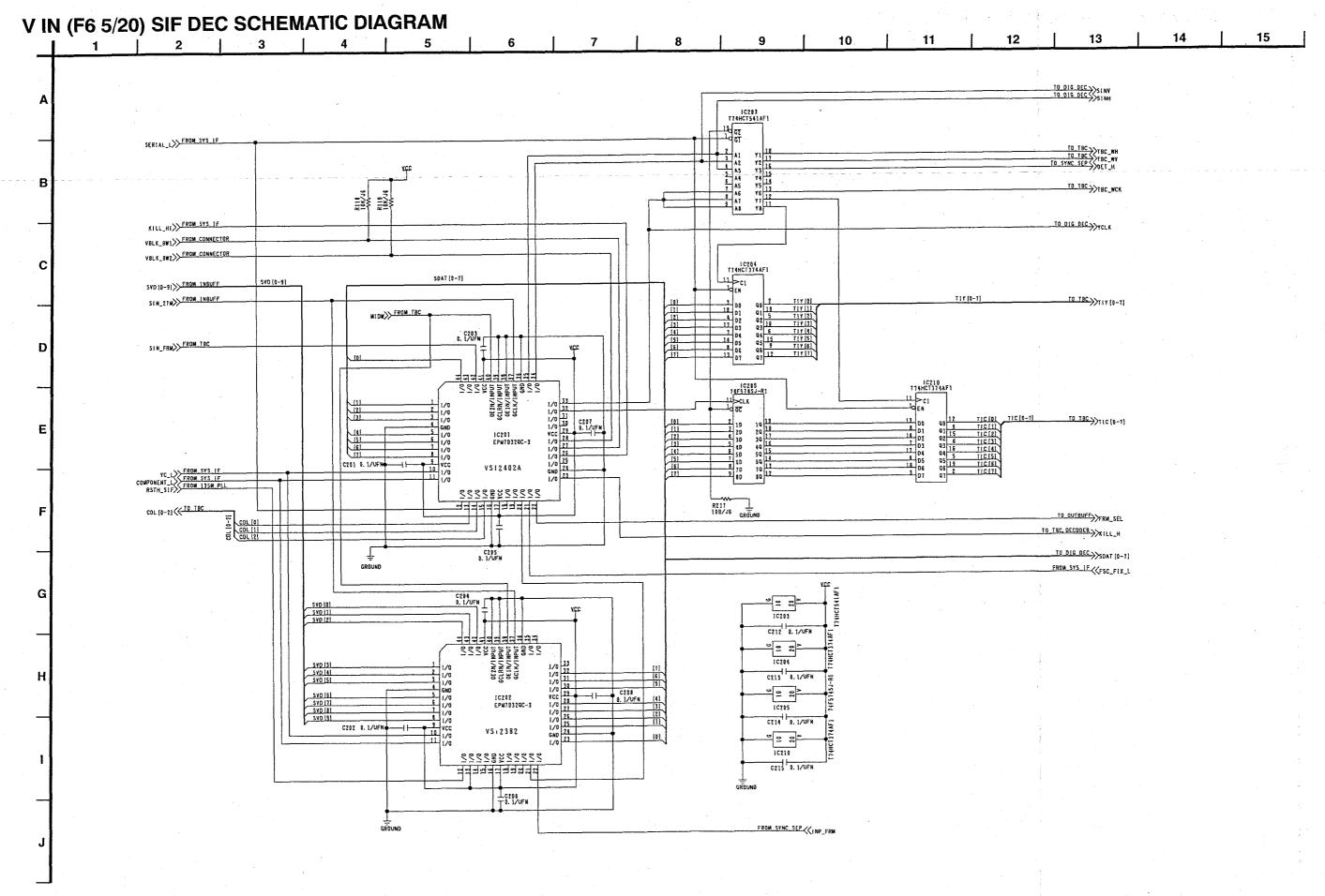


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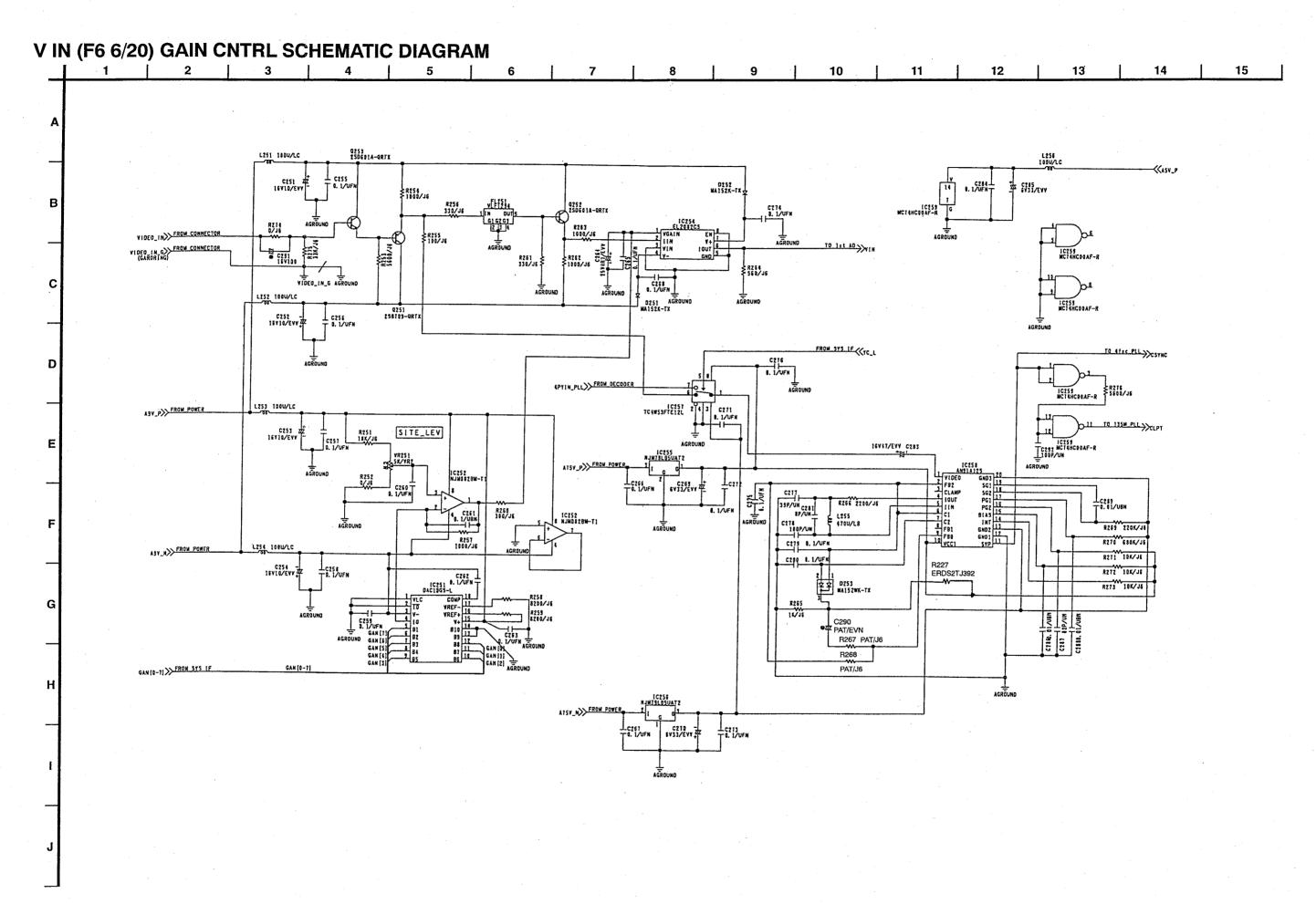


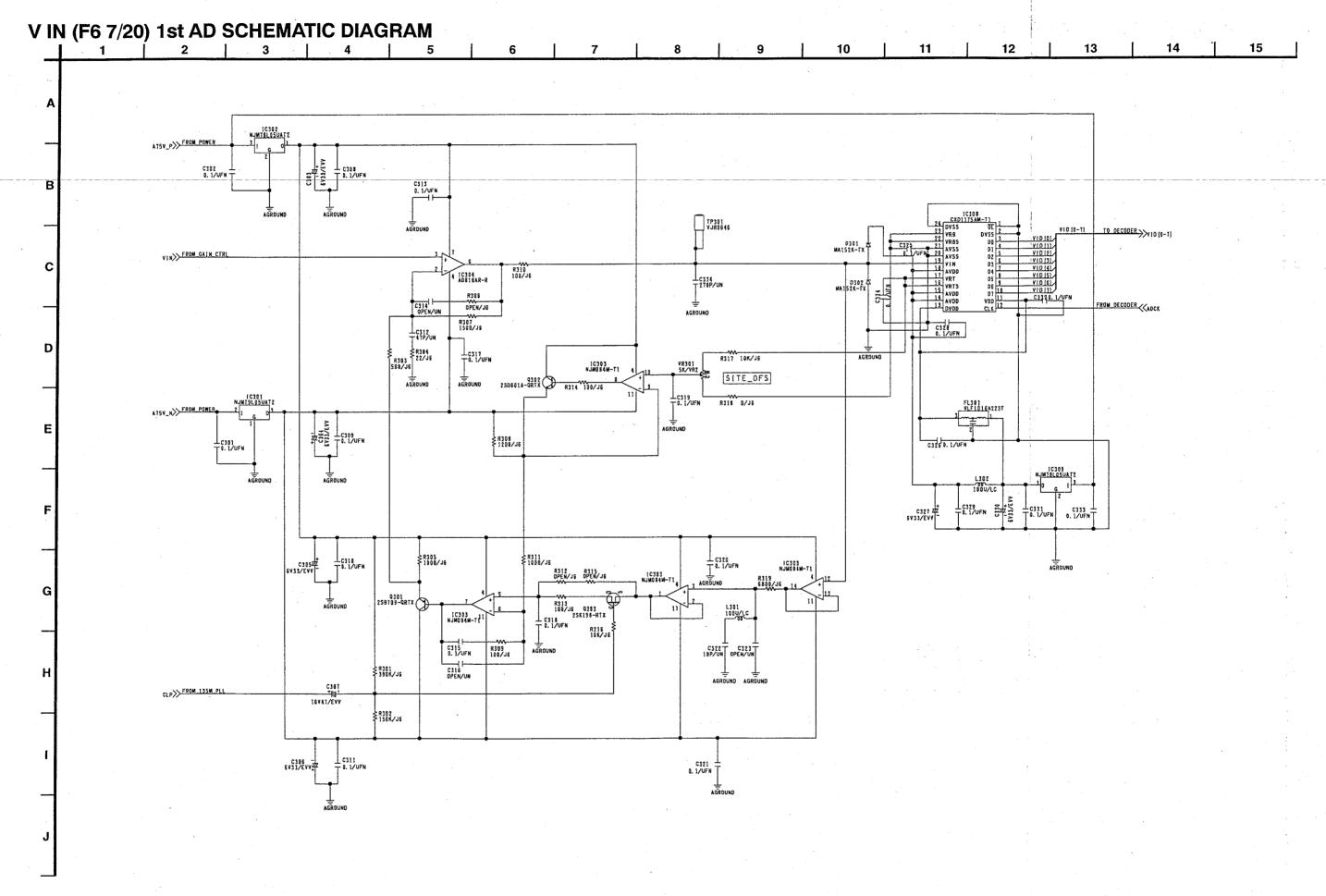


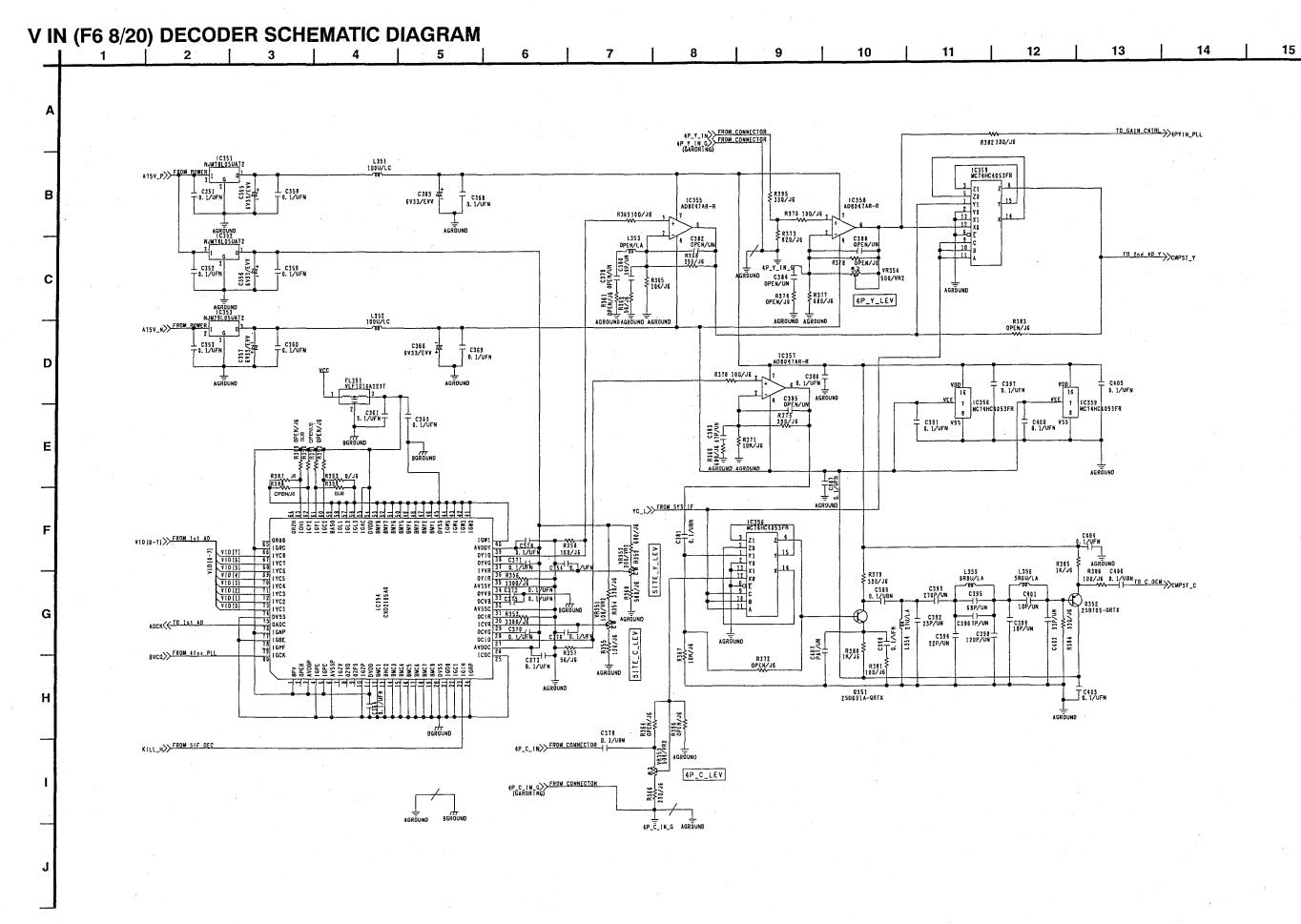


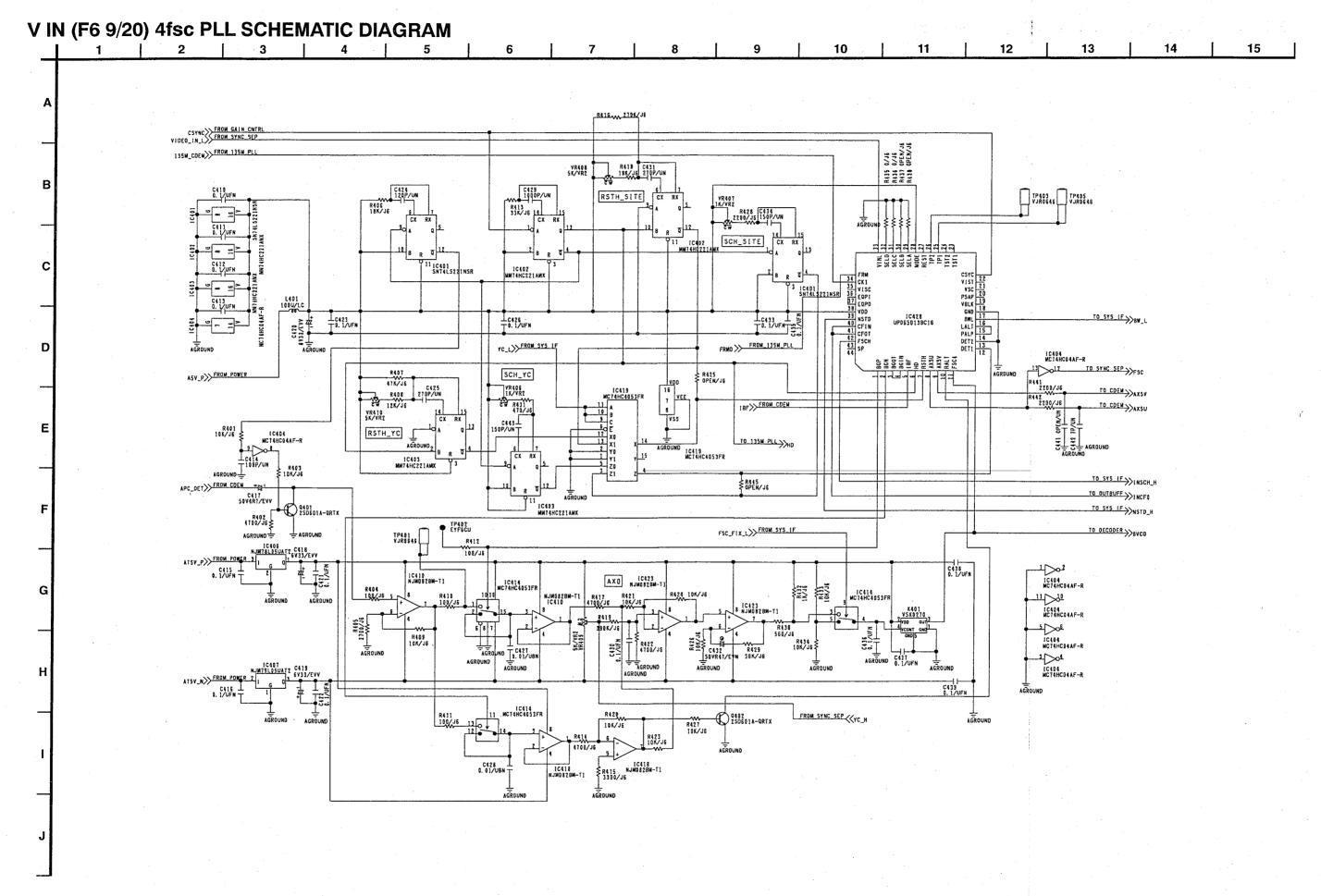


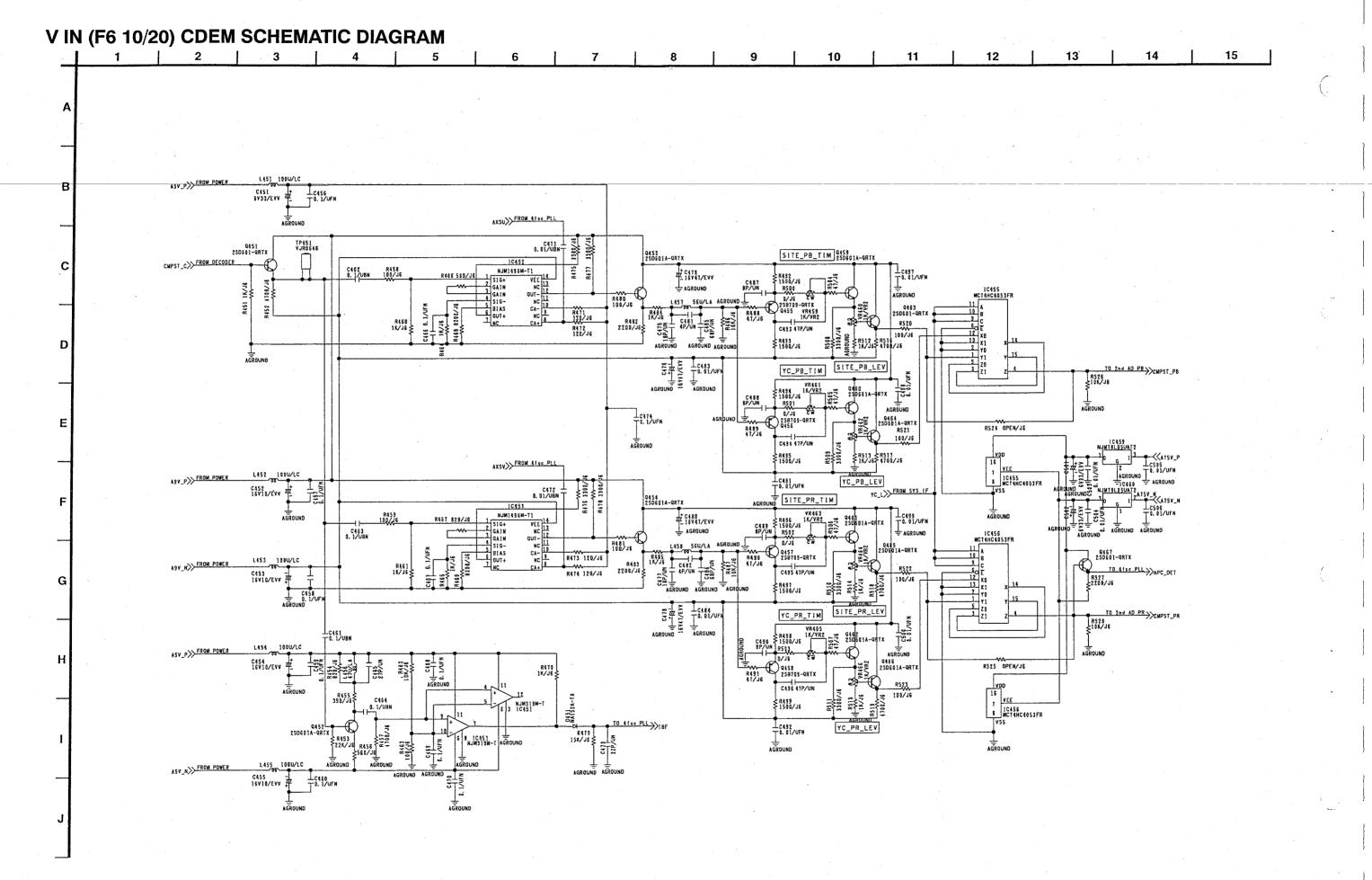
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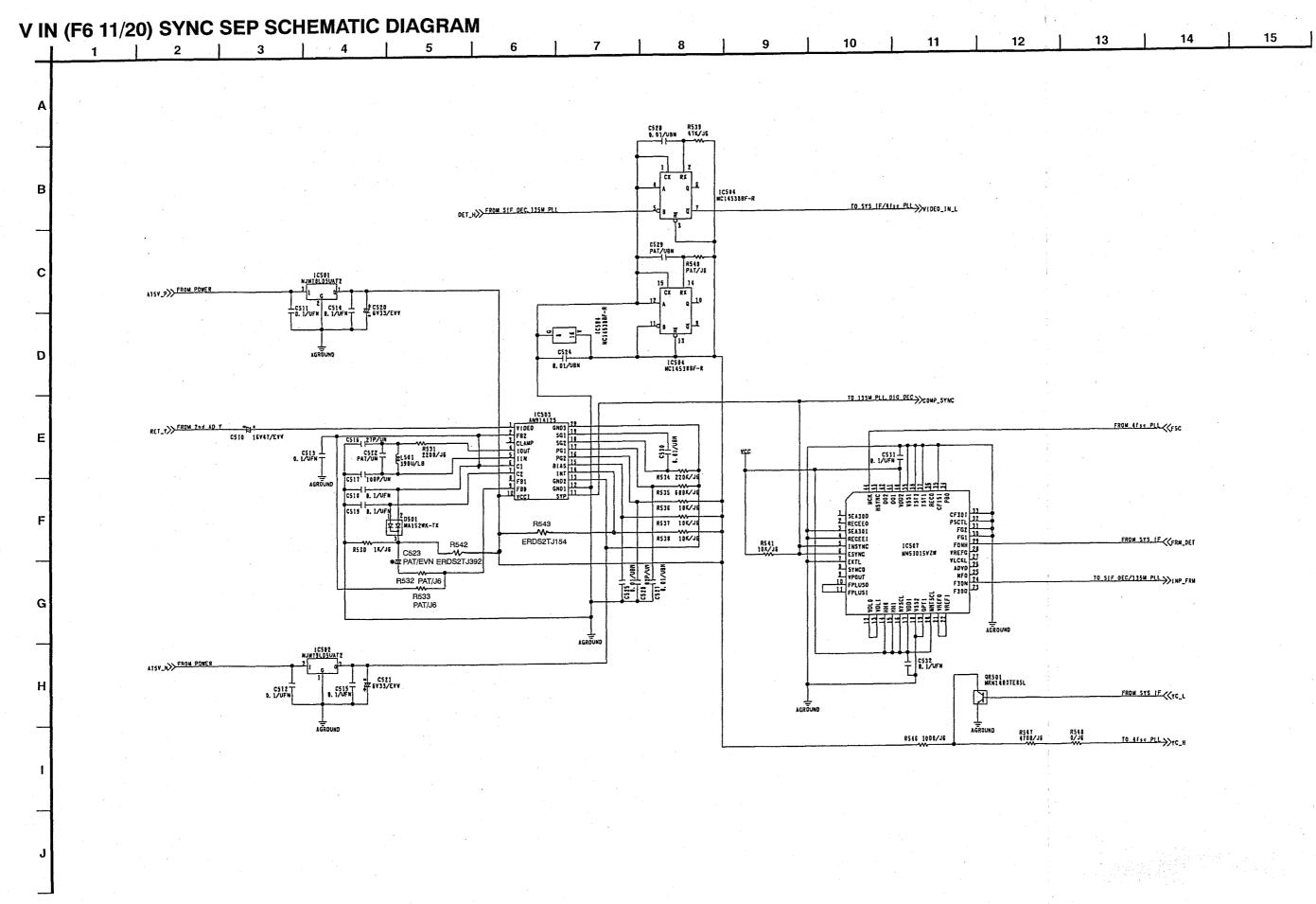


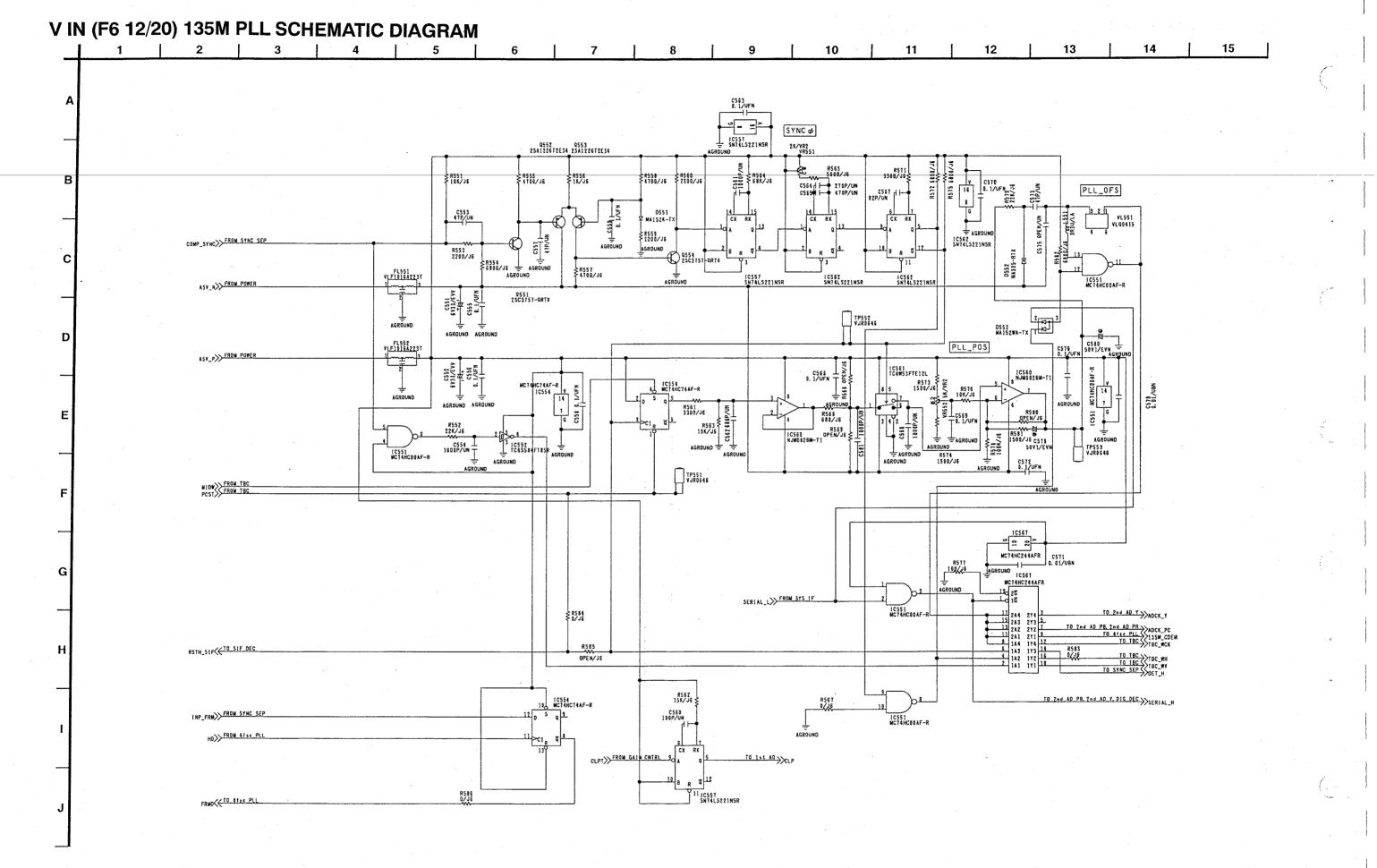


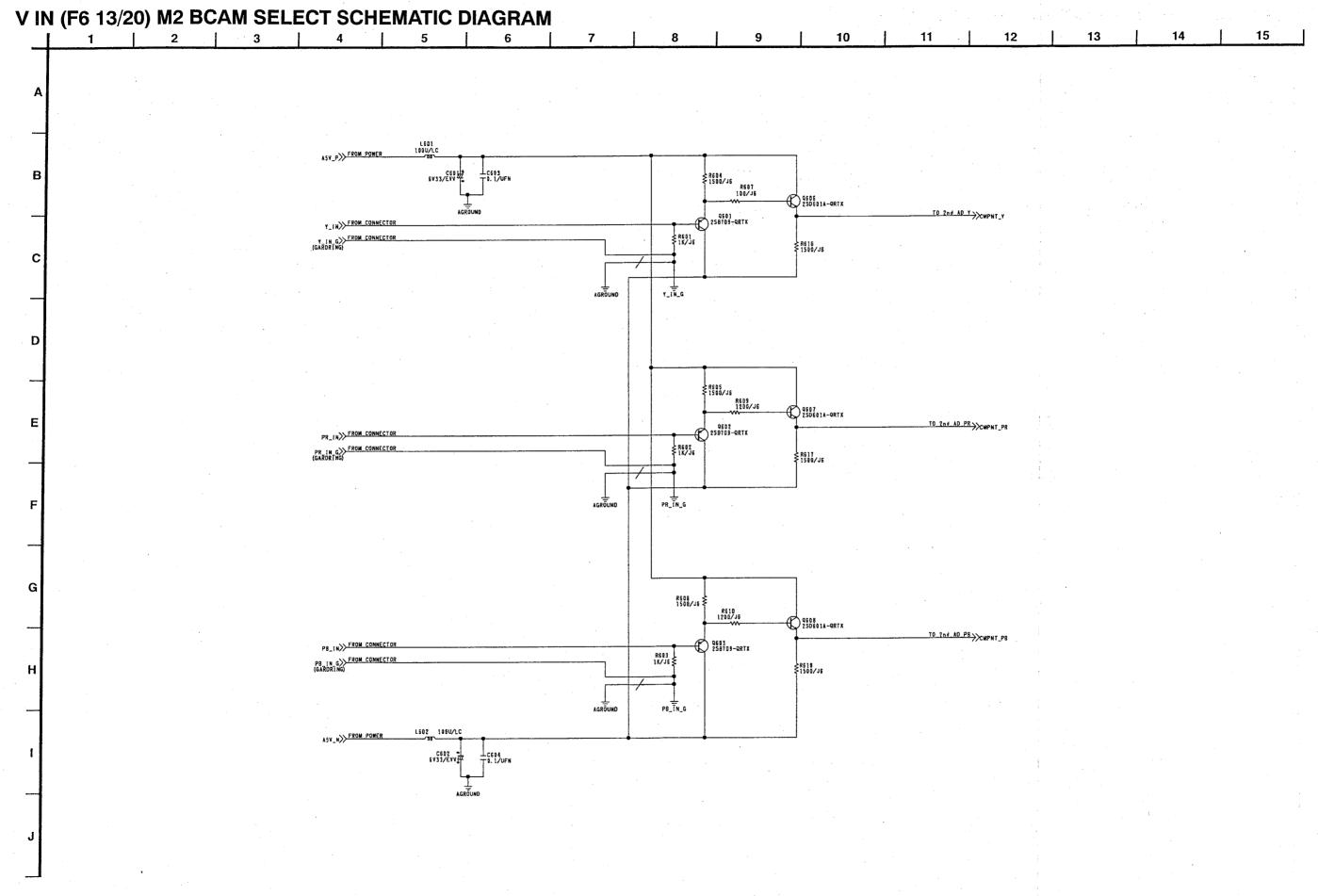


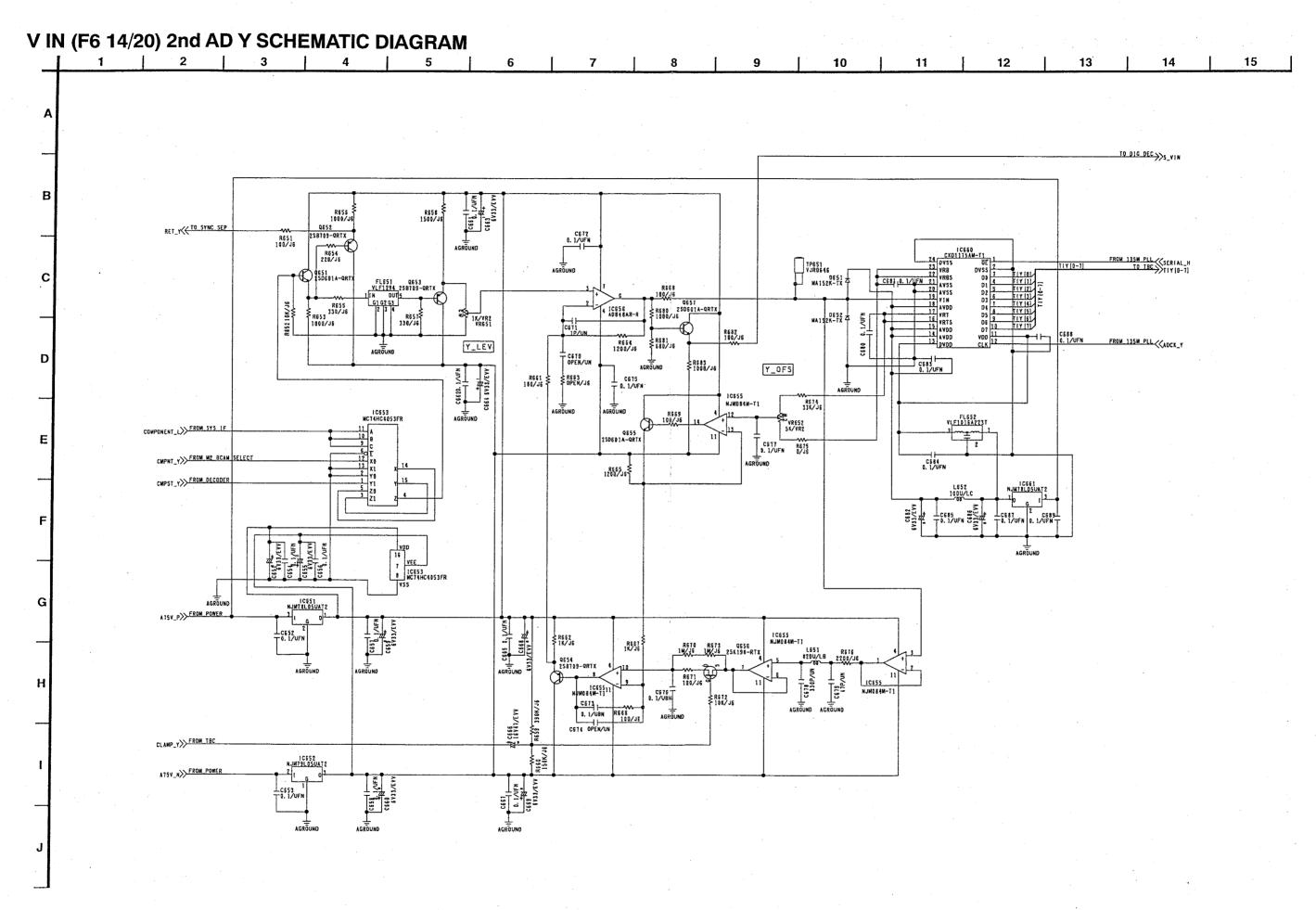


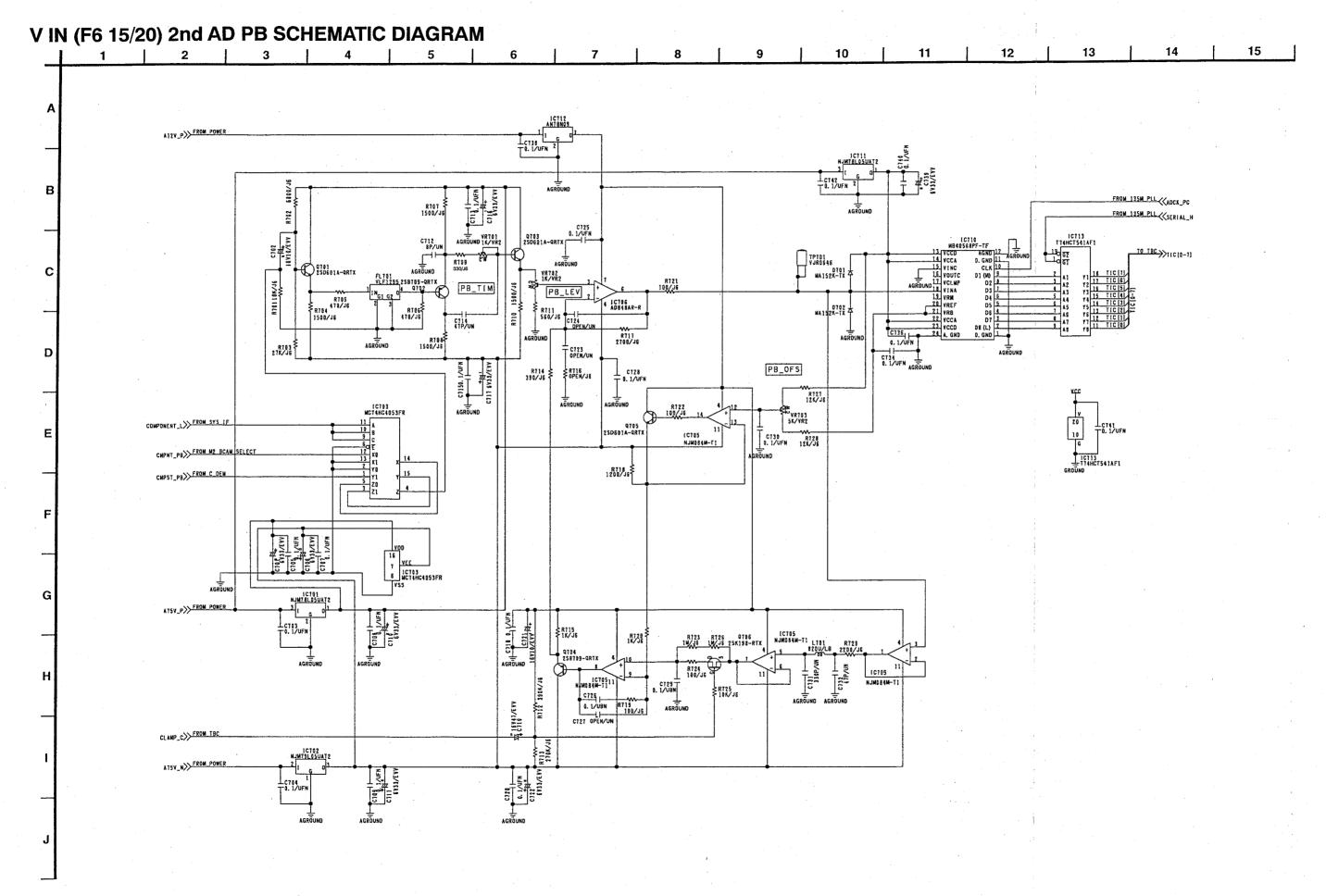


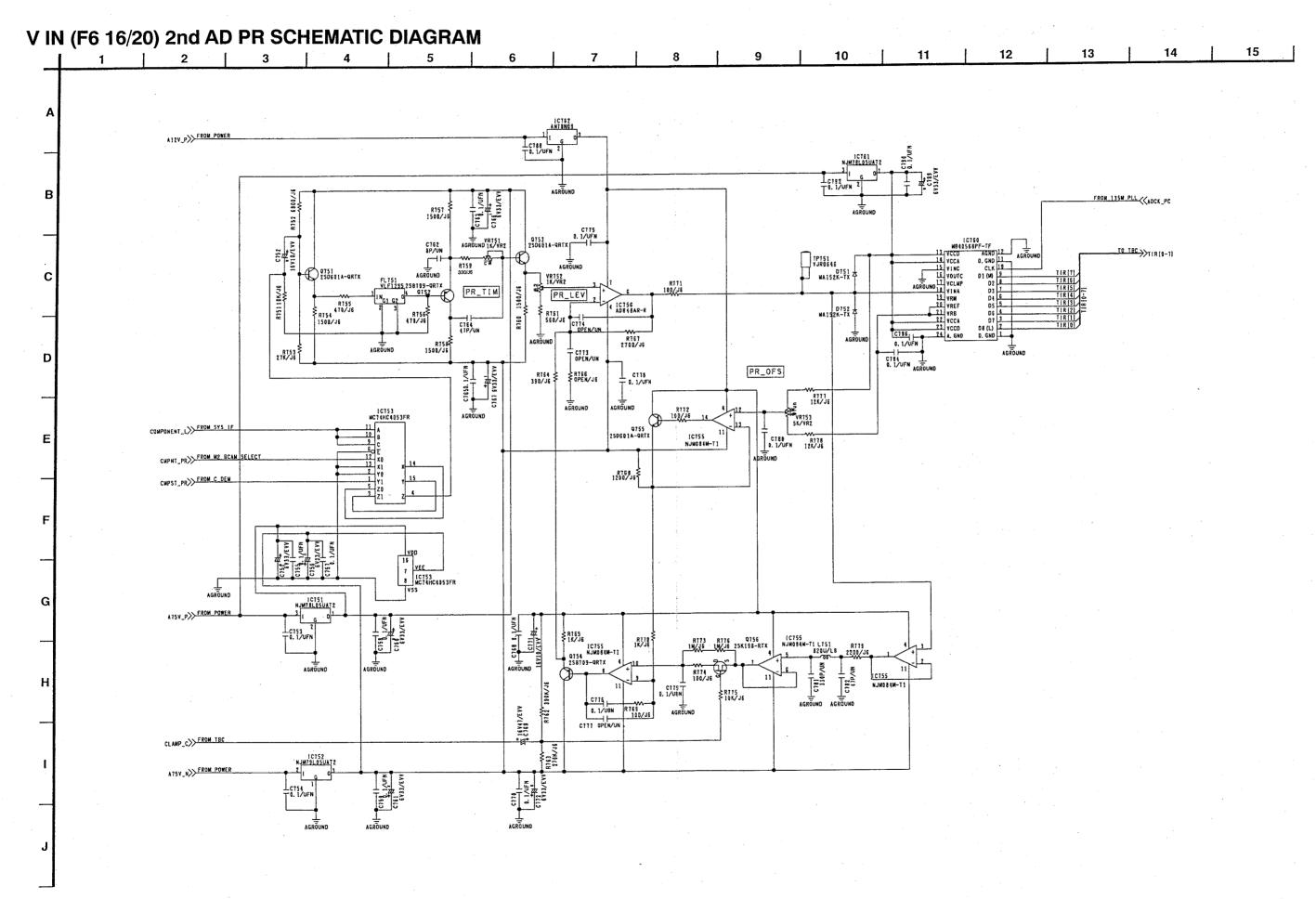


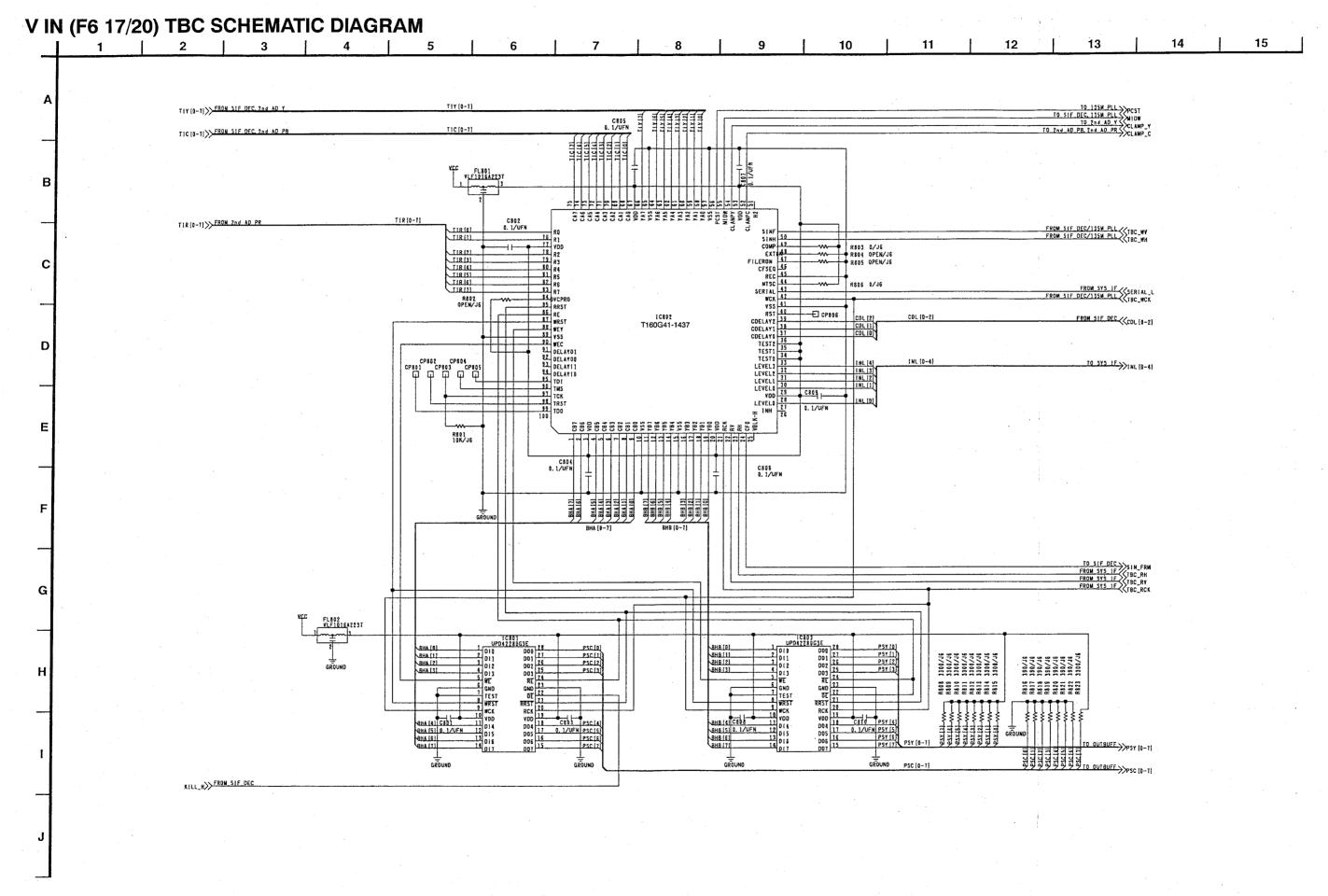


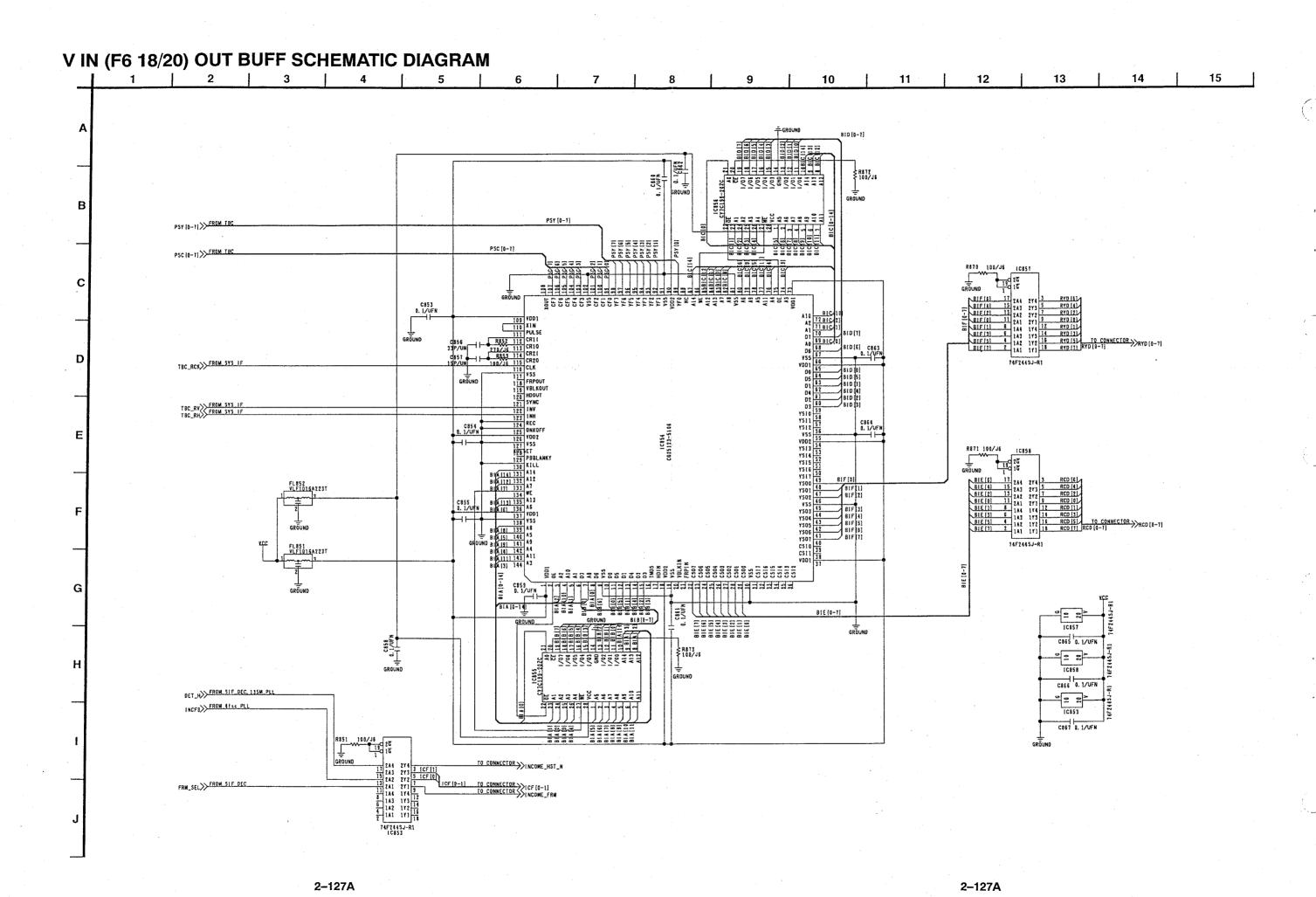


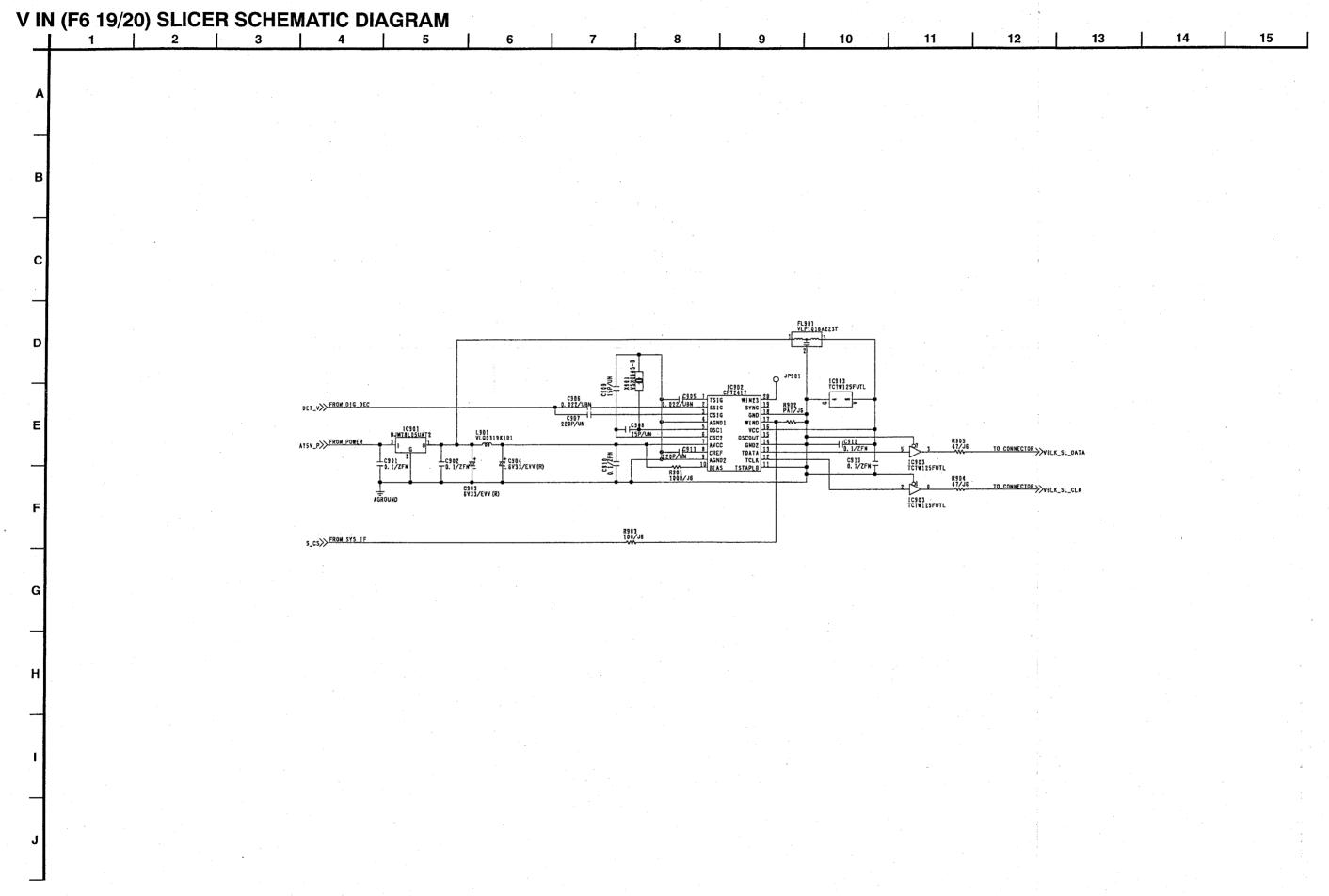




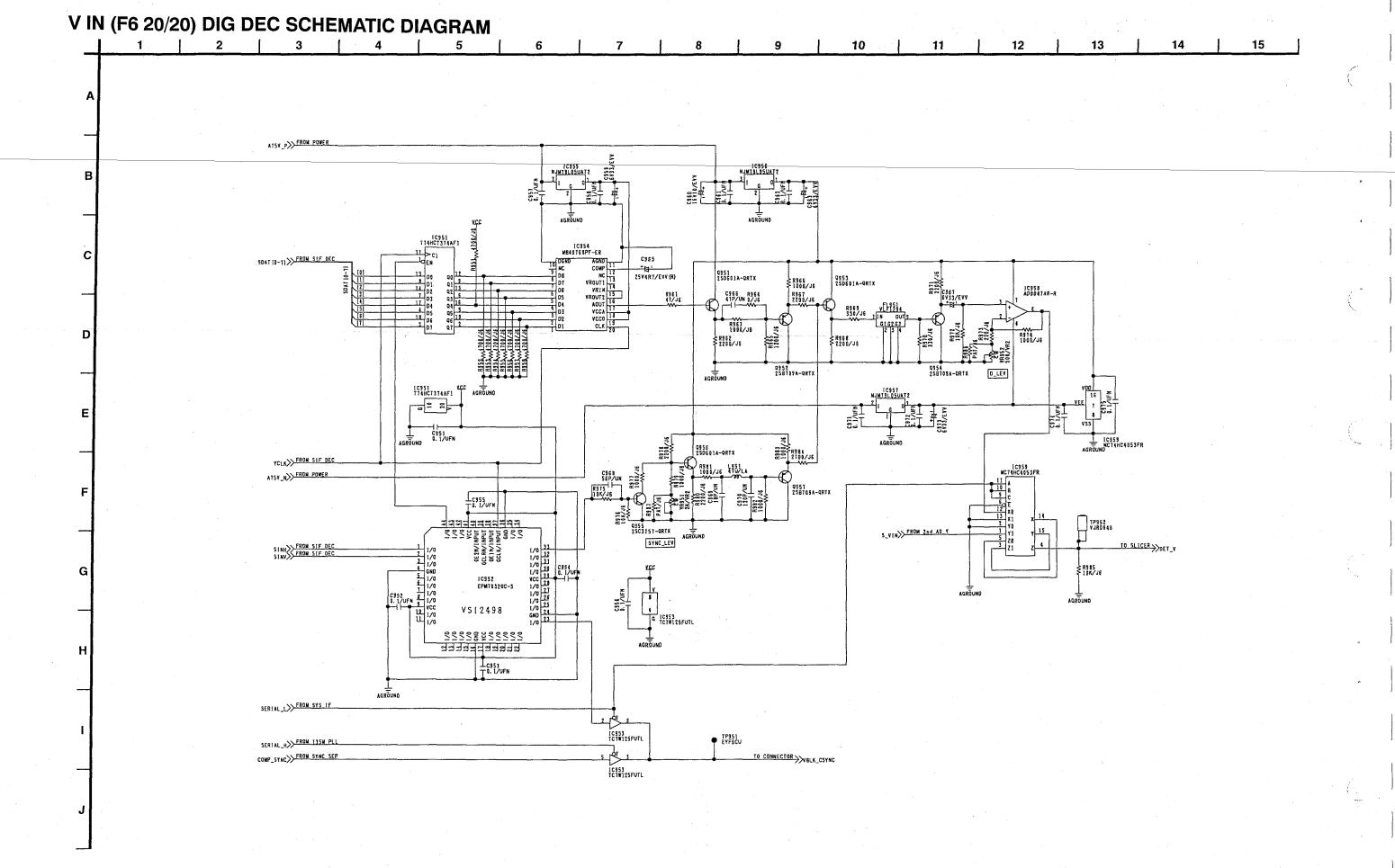


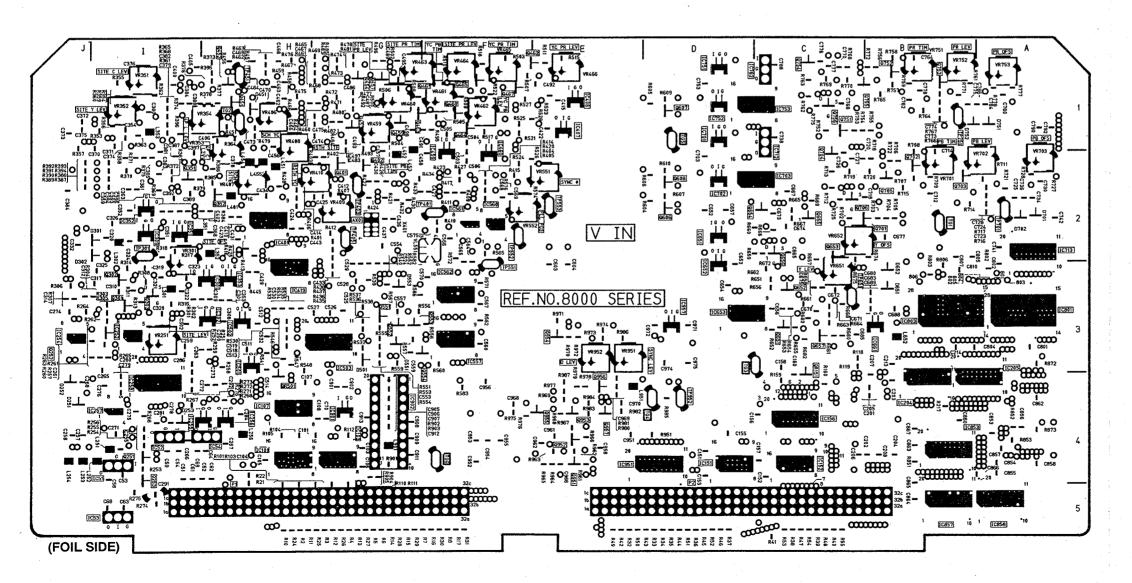




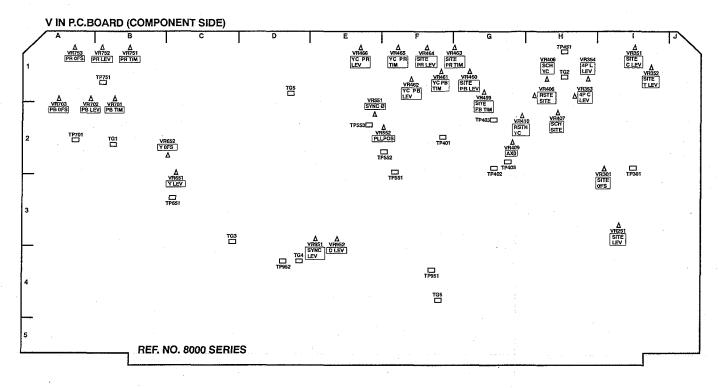


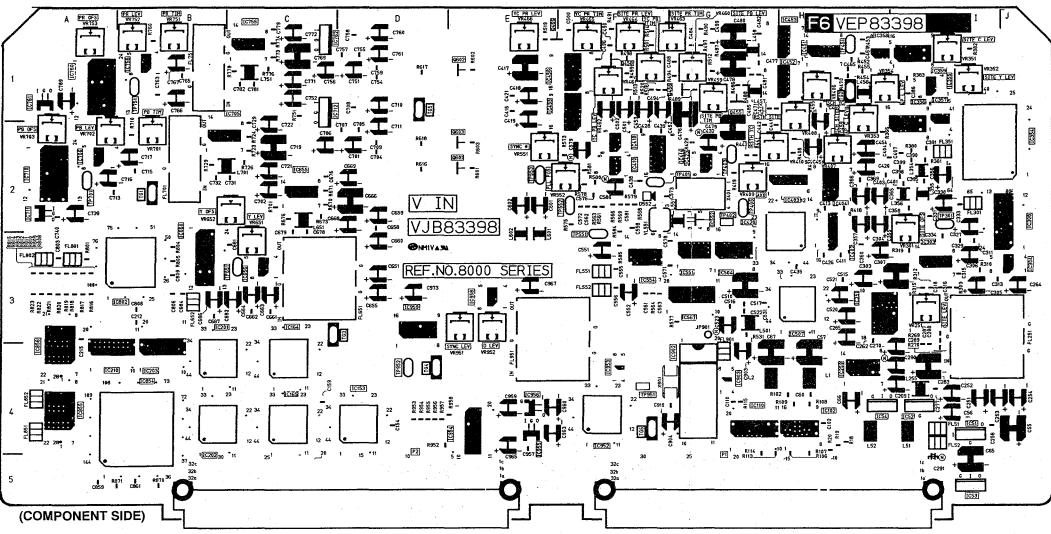
2-127B





		V IN (FC	IL SIDE)	
.	Transistors		IC407	E-1
1	Q251	1-4	IC419	H-3
	Q252	I-3	IC459	F-2
	Q252	1-4	IC460	F-2 H-3
ı	Q301	I-3 I-3	IC501 IC502	п-э H-3
	Q302 Q303	-3  -3	IC502	G-3
	Q303 Q351	I-3 I-2	IC557	F-3
	Q352	H-2	IC560	F-2
	Q401	G-2	IC561	F-2
	Q402	G-2	IC562	F-3
	Q451	H-1	IC651	D-2
	Q452	H-1	IC652	D-3
	Q453	G-1	IC653	D-3
	Q454	G-1	IC661	B-3
	Q457	G-1	IC701	D-1
	Q459	G-1	IC702	D-2
	Q460	F-1	IC703	C-2
	Q461	F-1	IC712	C-1
	Q462	F-1	IC713	A-2
	Q463	F-1	IC751	D-1
	Q464	F-1	IC752	D-1
	Q465	F-1	IC753	C-1
	Q467	F-1	IC762	C-1
·	Q551	G-3	IC801	A-3
	Q552	G-3	IC803	B-3
	Q553	G-3	IC853	B-4
1	Q554 Q606	F-3 D-2	IC857 IC858	B-5 A-5
.		D-2 D-1	IC901	G-4
	Q607 Q608	D-1 D-2	IC902	G-4 G-4
	Q651	C-3	IC951	D-4
1	Q652	C-3	IC957	D-3
	Q653	C-2	Test Points	
	Q654	C-2	TG1	B-2
-	Q655	C-2	TG2	H-1
	Q656	C-2	TG3	C-3
	Q657	C-3	TG4	D-4
ı	Q701	B-2	TG5	D-1
٠	Q702	B-2	TG6	F-4
ı	Q703	B-2	TP301	I-2
	Q704	C-2	TP401	F-2
Į	Q705	B-2	TP403	G-2
1	Q706	C-2	TP405	G-2
ĺ	Q751	C-1	TP451	H-1
	Q752	B-1	TP551	F-3
1	Q753	B-1	TP552	F-2 E-2
ı	Q754	C-1 C-1	TP553 TP651	C-3
1	Q755 Q756	C-1	TP701	A-2
1	Q951	E-4	TP751	B-1
1	Q952	E-4	TP952	D-4
	Q953	E-4	Adjustments	
	Q954	E-3	VR251	1-3
	Q955 ·	E-4	VR301	1-2
1	Q956	E-4	VR351	i-1
İ	Q957	E-4.	VR352	1-1
-	Transistors & R		VR353	H-1
-	QR151	C-4	VR354	H-1
	QR501	H-4	VR406	H-1
	Integrated Circu		VR407	H-2
1	IC51	1-4 1-4	VR408 VR409	H-1 G-2
Į	IC52 IC53	I-4 I-5	VR409 VR410	G-2 G-2
Į	IC53	H-4	VR459	G-1
Į	IC101	H-4	VR460	G-1
ı	IC103	G-4	VR462	F-1
1	IC107	H-4	VR463	G-1
	IC151	D-4	VR464	F-1
i	IC152	C-4	VR465	F-1
1	IC156	C-4	VR466	E-1
ı	IC204	B-4	VR551	E-2
1	1C205	A-4	VR552	F-2`
1	. 1C252	1-3	VR651	C-3
1	IC254	J-3	VR652	C-2
1	IC255	H-4	VR701	B-2
	IC256	H-4	VR702	A-2
	IC257	1-4	VR703	A-2
	IC258	i-4	VR751	B-1
1	IC301	H-3	VR752	B-1
1	IC302	H-3	VR753	A-1
1	IC309	1-2	VR951	E-3
1	IC351	1-2	VR952	E-3
ı	IC352	1-2	Connectors	u e
1	IC353	H-3	P1	H-5
Ì	IC401	H-2	P2	D-5
	IC406	E-1		,.





V IN (COMPONENT SIDE)							
Transistors	V III (OO)III (	IC956	., IE-4				
Q455	G-1	IC958	E-3				
Q456	G-1	IC959	D-3				
Q458	F-1	Test Points					
Q466	E-1	TG1	B-2				
Q601	E-2 .	TG2	H-1				
Q602	E-1	TG3	C-3				
Q603	E-2	TG4	D-4				
Integrated Circ		TG5	D-1				
IC51	1-4	TG6	F-4				
IC52	1-4	TP301	I-2 F-2				
IC53	I-5 H-4	TP401 TP402	G-2				
IC54 IC102	H-4	TP402	G-2				
IC102	G-4	TP405	G-2				
IC153	D-4	TP451	H-1				
IC164	C-4	TP551	F-3				
IC165	C-4	TP552	F-2				
IC201	B-4	TP553	E-2				
IC202	B-4	TP651	C-3				
IC203	B-4	TP701	A-2				
IC210	A-4	TP751	B-1				
IC251	H-3	TP951	F-4				
IC259	H-4	TP952	D-4				
IC303	1-3	Adjustments VR251	1-3				
IC304 IC308	J-3 J-2	VR251 VR301	i-3 i-2				
IC308	1-2	VR351	- <u>2</u>  -1				
IC355	1-1	VR352	i-1				
IC356	1-1	VR353	H-1				
IC357	1-1	VR354	H-1				
IC358	H-1	VR406	H-1				
IC359	1-1	VR407	H-2				
IC402	H-2	VR408	H-1				
IC403	H-2	VR409	G-2				
IC404	H-2	VR410	G-2				
IC410	F-2	VR459 VR460	G-1 G-1				
IC414 IC418	F-2 F-2	VR460 VR461	F-1				
IC418	G-2	VR462	F-1				
IC428	H-2	VR463	G-1				
IC451	H-1	VR464	F-1				
IC452	H-1	VR465	F-1				
IC453	H-1	VR466	E-1				
IC455	F-1	VR551	E-2				
IC456	F-1	VR552	F-2				
IC504	G-3	VR651	C-3				
IC507	H-3	VR652	C-2				
IC551	G-3	VR701 VR702	B-2 A-2				
IC552 IC554	G-2 F-3	VR702 VR703	A-2 A-2				
IC554 IC567	G-3	VR751	B-1.				
IC655	C-2	VR752	B-1				
IC656	C-3	VR753	A-1				
IC660	B-3	VR951	E-3				
IC705	B-2	VR952	E-3				
IC706	A-2	Connectors					
IC710	A-2	P1	G-5				
IC711	A-2	P2	D-5				
IC712	C-1						
IC755	C-1						
IC756	B-1						
IC760 IC761	A-1 A-1						
IC761 IC762	C-1						
IC762 IC802	B-3	,					
IC854	B-4						
IC855	A-4						
IC856	A-4						
IC902	G-4						
IC903	G-4						
IC952	F-4						
IC953	F-4						
IC954	E-4						

# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

## Subject: Standardization of ICs

Please use this supplement to	Please use this supplement together with the Service Manual as follows :									
Model No.	Bulletin No.	Order No.	Effective from							
AJ-D750E/EN	118	VSD9606M502A/B	L7TRB0001							
AJ-D650E	92	VSD9612MJ01A/B	L7TRA0001							
AJ-D640E	92	VSD9612MJ01A/B	L7TRA0001							

Board : Servo (F1:VEP82105B) V OUT (F4:VEP83221B) – AJ-D750 CUE (H2:VEP84182A) – AJ-D750 RF AMP (H4:VEP85049A)

## Reason for Change

- The following part(s) has (have) been changed for serviceability improvement.
- The following part(s) has (have) been changed for productivity improvement.
- The following part(s) has (have) been changed for standardization.
- The following part(s) has (have) been changed for the safety regulation.

#### F1 Servo Board (VEP82105B) - AJ-D750/D650/D640

Part Number						
Ref. No.	Original Part No.	New Part No.		Part Name & Descriptions	Pcs	Remarks
IC70	MC74HC86F	MC74HC86AF	IC		1	
IC266	MC74HC164F	MC74HC164AF	IC		1 1	
IC269	MC74HC86F	MC74HC86AF	IC		1	

#### AJ-D750

Ref. No.	Schem	atic Diagram	P.C.	Board
	Page	Area No.	Page	Area No.
IC70	2-14	C-10 (3/19)	3-3	E-1 (F)
IC266	2-20	I-6 (9/19)	3-3	G-3 (F)
IC269	2-20	K-11~14 (9/19)	3-3	F-3 (F)

#### AJ-D650/D640

Ref. No.	Schema	atic Diagram	P.C.	Board
1	Page	Area No.	Page	Area No.
IC70	2-14	E~F-8 (3/19)	3-3	E-1 (F)
IC266	2-20	B-4 (9/19)	3-3	G-3 (F)
IC269	2-20	A-7~8 (9/19)	3-3	F-3 (F)

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F4 V OUT Board (VEP83221B) - AJ-D750

1 7 0 001	Boara / 1 21 002271	_/	· · · · · · · · · · · · · · · · · · ·		
Part Number		· · · · · · · · · · · · · · · · · · ·			
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptio	ns Pcs	Remarks
IC8162	MC74HC86F	MC74HC86AF	IC	1	

Ref. No.	Schematic Diagram		P.C.	Board
	Page	Area No	Page	Area No.
IC8162	2-64	B-16 (10/30)	3-6	C-2 (C)

H2 CUE Board (VEP84182A) - AJ-D750

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC4354, 55	MC74HC164F	MC74HC164AF	IC	1	

Ref. No.	Schema	tic Diagram	P.C.	Board
	Page	Area No.	Page	Area No.
IC4354	2-164	G~H-5 (6/6)	3-11	B-3 (F)
IC4355	2-164	G~H-6 (6/6)	3-11	B-3 (F)

H4 RF AMP Board (VEP85049A) - AJ-D750/D650/D640

Part Number		·			
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
iC5005	MC74HC86F	MC74HC86AF	IC	1	

AJ-D750

Ref. No.	Schematic Diagram		P.C. Board	
	Page	Area No.	Page	Area No.
IC5005	2-174	B-2 (1/5)	3-13	C-2 (C)

AJ-D650/D640

A3-D030/D040				
Ref. No.	Schematic Diagram		P.C.	Board
	Page	Area No.	Page	Area No.
1C5005	2-136	F-2 (1/5)	3-11	C-2 (C)

# **Technical Bulletin**

## Supplement to the Service Manual

**Broadcast Product** 

## Subject: Improvement of Sample and Hold IC Output

lease use this supplement to	gether with the Service Man	ual as follows:	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	122	VSD9606M502A/B	C8TRB0001
AJ-D650E √,	95	VSD9612MJ01A/B	C8TRA0001
AJ-D640E ∫	95	VSD9612MJ01A/B	C8TRA0001

Board: Servo (F1:VEP82105B)

Symptom: CTL playback amplitude may be low.

Cause : Due to the noise by the DC shift at the sample and hold IC output for D/A Conversion.

Remedy: To prevent it, the following modification is performed.

1). Capacitor C602 (50V/33pF) is added between pins #6 and #7 of IC207 on the foil side as shown in

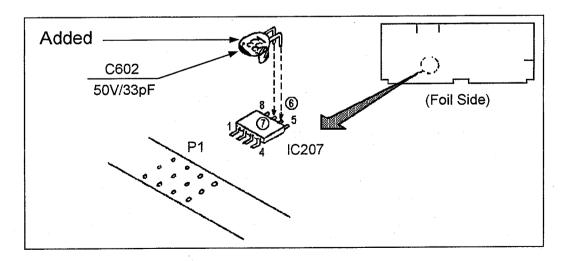
2). After this modification, the following Adjustments are required.

1-1. Motor Torque Offset Adjustment

5-2. PLL Lock Adjustment (PB)

5-10. PLL Lock Adjustment (R/P Head)

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
C602		ECCF1H330JC	C. CAPACITOR 50V 33P	0-→1	



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# Technical Bulletin

# Supplement to the Service Manual

**Broadcast Product** 

# Subject : Improvement of SDI Output Format

Subject: Improvement Please use this supplement tog	ether with the Service Manu	ual as follows:	Effective from
Please use this supplement too  Model No.  AJ-D650E  AJ-D640E	96 96	Order No. VSD9612MJ01A/B VSD9612MJ01A/B T (F4:VEP83352B)	C8TRA0001 C8TRA0001

Board: V OUT (F4:VEP83352B)

Symptom: H shift may occur at the SW OUT when the SDI output signal is through the Digital Switcher TD-220.

: Lower 2 bits of SAV/EAV is not fixed to "00".

Remedy: To improve it, the PLD IC700 is changed from VSI2500A to VSI2500B.

This modification is only required for the following P.C. Board. VJB83352-2 / VEP83352B-1, B-2

VJB83352-27 VL1 0000	
Part Number New Part No. New Part No.	Part Name & Descriptions Pcs Remarks  1 Checksum: 00248A64
Dof No Original Part No.	10
IC700 VSI2500A VSI2500B	P.C. Board Area No.
Sche	ematic Diagram Page Area No. Page A-4 (C)

Ref. No. Original Par			
IC700 VSI250	<u></u>		.C. Board
	Schematic Diagram	Page	Area No.
Ref. No.	A	rea No.	A-4 (C)
	2-53 C~E-	4~7 (9/16)	
IC700	2-00		
10700			

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# echnical Bulleti

# Supplement to the Service Manual

**Broadcast Product** 

Subject : Improvement of Picture Disturbance

lease use this supplement t	ogether with the Service Man	ual as follows :	
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN 1/17/4 2	6 + 4 17727123	VSD9606M502A/B	D8TRB0001
AJ-D650E V 1811 5	148116 97	VSD9612MJ01A/B	D8TRA0001
AJ-D640E li	N 97	VSD9612MJ01A/B	D8TRA0001

Board: V IN (F6:VEP83341A) - AJ-D750

V IN (F6:VEP83355B) - AJ-D650/D640

VJN (F6:VEP83398A) - AJ-D750/D650/D640

Symptom: Upper side of the picture may be disturbed when the noisy signal is input.

Cause

: When the noisy signal is input, SYNC SEPA circuit of the Video Input may malfunction. It causes the 13.5MHz PLL unlock. It results in picture disturbance.

Remedy: To improve the picture, margin for the noise on the video input is increased.

- 1. P.C. Board version is VEP83341A (for AJ-D750) and VEP83355B (for AJ-D650/D640)
- 1). Delete resistor R532 (1/10W, 2.2KΩ) from the component side as shown in figures 1 and 4. 2). Delete resistors R267 and R533 (1/10W, 2.2K $\Omega$ ) and R268 (1/10W, 220 $\Omega$ ) from the foil side as shown in figures 2, 3, 4 and 5.
- 3). Float the leg of pin # 8 of IC258 and IC503 on the foil side as shown in figures 2, 3, 4 and 5.
- 4). Add a resistor R277 (1/4W, 3.9K $\Omega$ ) between pin #10 of IC258 and cathode of D253 on the foil side
- 5). Add a resistor R542 (1/4W, 3.9K $\Omega$ ) between pin #10 of IC503 and cathode of D501 on the foil side
- 6). Add a resistor R543 (1/4W, 150K $\Omega$ ) between pins #10 and #14 of IC503 on the foil side as shown
- 7). Connect a jumper wire between pins #2 and #6 of IC258 on the foil side as shown in figures 3 and
- 8). Connect a jumper wire between pins #2 and #6 of IC503 on the foil side as shown in figures 2 and
- 2. P.C. Board version is VEP83398A which produced before Serial Number D8TRB···· /
- 1). Delete resistors R267, R532 and R533 (1/10W,  $2.2 \text{K}\Omega$ ) and R268 (1/10W,  $220 \Omega$ ) from the foil side as shown in figures 3, 4, 5, and 6.
- 2). Float the leg of pin # 8 of IC258 and IC503 on the foil side as shown in figures 3, 4, 5, and 6.
- 3). Add a resistor R277 (1/4W, 3.9K $\Omega$ ) between pin #10 of IC258 and cathode of D253 on the foil side as shown in figures 3 and 5.

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- 4). Add a resistor R542 (1/4W, 3.9KΩ) between pin #10 of IC503 and cathode of D501 on the foil side as shown in figures 4 and 6.
- 5). Add a resistor R543 (1/4W, 150K $\Omega$ ) between pins #10 and #14 of IC503 on the foil side as shown in figures 4 and 6.
- 6). Connect a jumper wire between pins #2 and #6 of IC258 on the foil side as shown in figures 3 and 5.
- 7). Connect a jumper wire between pins #2 and #6 of IC503 on the foil side as shown in figures 4 and 6.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R267	ERJ6GEYJ222		M. RESISTOR CH 1/10W 2.2K	1→0	
R268	ERJ6GEYJ221		M. RESISTOR CH 1/10W 220	1→0	
R277		ERDS2TJ392	C. RESISTOR 1/4W 3.9K	0→1	
R532, 533	ERJ6GEYJ222		M. RESISTOR CH 1/10W 2.2K	2→0	*
R542		ERDS2TJ392	C. RESISTOR 1/4W 3.9K	0→1	
R543		ERDS2TJ154	C. RESISTOR 1/4W 150K	0→1	•

- 3. P.C. Board version is VEP83398A which produced after Serial Number D8TRB···· / D8TRA····.
- 1). Float the legs of pin #8 of IC258 and IC503 and then cut them on the foil side as shown in figures 3, 4, and 7.
- 2). Add a resistor R277 (1/4W,  $3.9 \text{K}\Omega$ ) between pin #10 of IC258 and cathode of D253 on the foil side as shown in figures 3 and 8.
- 3). Connect a jumper wire between pins #2 and #6 of IC258 on the foil side as shown in figures 3 and 8.
- 4). Add a resistor R542 (1/4W,  $3.9 \text{K}\Omega$ ) between pin #10 of IC503 and cathode of D501 on the foil side as shown in figures 4 and 9.
- 5). Connect a jumper wire between pins #2 and #6 of IC503 on the foil side as shown in figures 4 and 9.
- 6). Capacitors C290 and C523 (50V/0.1 $\mu$ F) and resistors R267, R532, and R533 (1/10W, 2.2 $K\Omega$ ) and R268 (1/10W, 220 $\Omega$ ) are not installed.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
C290	ECEV1HN010Q		E. CAPACITOR CH 50V 1U	1→0	
C523	ECEV1HN010Q	, <del></del>	E. CAPACITOR CH 50V 1U	1→0	
R267	ERJ6GEYJ222		M. RESISTOR CH 1/10W 2.2K	1→0	
R268	ERJ6GEYJ221		M. RESISTOR CH 1/10W 220	1→0	
R277		ERDS2TJ392	C. RESISTOR 1/4W 3.9K	0→1	
R532, 533	ERJ6GEYJ222	, · · · · · · · · · · · · · · · · · · ·	M. RESISTOR CH 1/10W 2.2K	2→0	
R542		ERDS2TJ392	C. RESISTOR 1/4W 3.9K	0→1	

### F6 V IN P.C. Board (VEP83341A/VEP83355B)

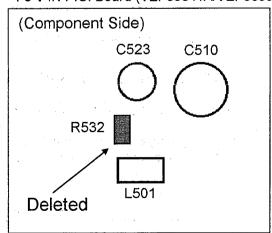


Fig. 1 Page 3-7 (G-3)

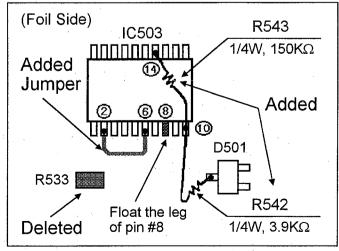


Fig. 2 Page 3-7 (G-3)

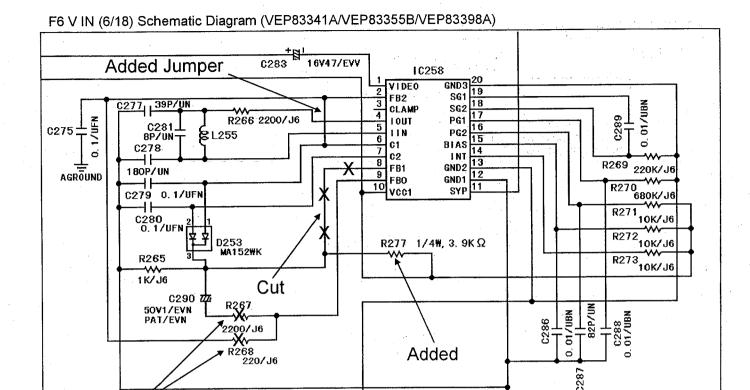
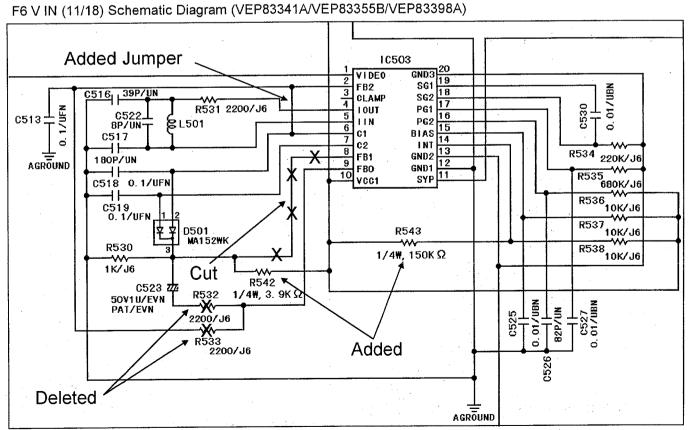


Fig. 3 Page 2-89

Deleted

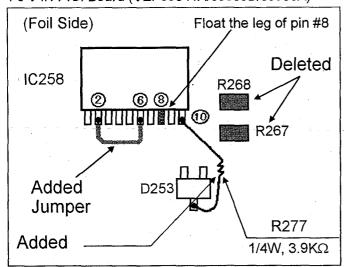


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Fig. 4 Page 2-94

#### F6 V IN P.C. Board (VEP83341A/83355B/83398A)

#### F6 V IN P.C. Board (VEP83398A)



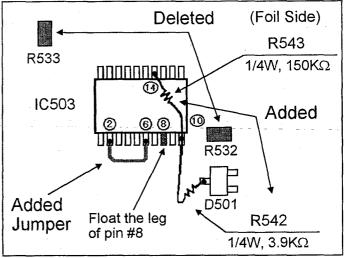


Fig. 5 Page 3-7 (I-4)-

Fig. 6 Page 3-7 (G-3)

F6 V IN P.C. Board (VEP83398A)

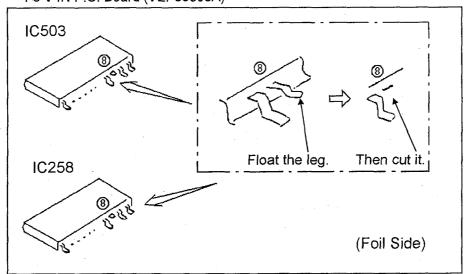
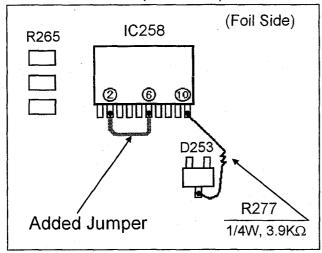


Fig. 7 Page 3-7 (I-4)

F6 V IN P.C. Board (VEP83398A)





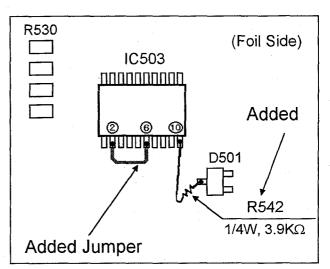


Fig. 9 Page 3-7 (G-3)

## Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Reduction of Click Sound from Cleaner Solenoid Unit

Please use this supplement together with the Service Manual as follows:					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D750E/EN	128	VSD9606M502A	K7TRB0001		
AJ-D650E	101	VSD9612MJ01A	K7TRA0001		
AJ-D640E	101	VSD9612MJ01A	K7TRA0001		

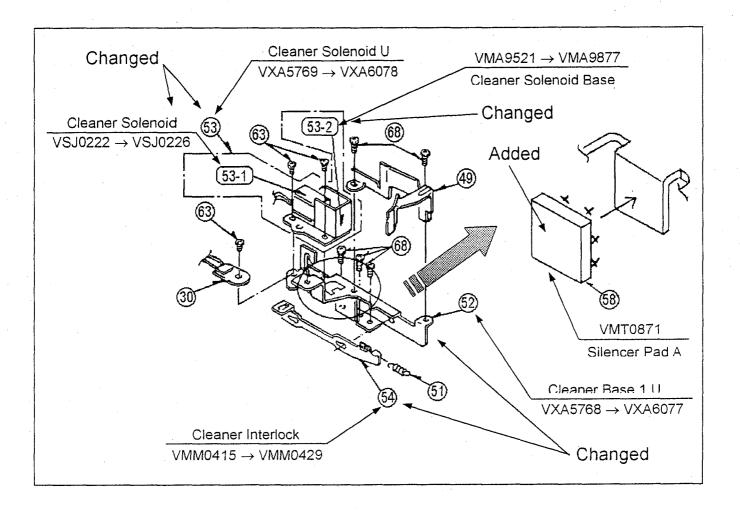
#### Mechanical Chassis Assembly (2)

Symptom: Click sound may be heard from the Cleaner Solenoid Unit when it functions.

Remedy: To reduce the click sound from the Cleaner Solenoid Unit, the Cleaner Solenoid is changed to the silencer type as shown below.

- 1). Change the Cleaner Base 1 Unit from VXA5768 to VXA6077.
- 2). Change the Cleaner Solenoid Unit from VXA5769 to VXA6078.
- 3). Change the Cleaner Solenoid from VSJ0222 to VSJ0226.
- 4). Change the Cleaner Solenoid Base from VMA9521 to VMA9877.
- 5). Change the Cleaner Interlock from VMM0415 to VMM0429.
- 6). Add a Silencer Pad A (VMT0871) to the Cleaner Base 1 Unit by adhesive as shown in figure 1.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
52	VXA5768	VXA6077	CLEANER BASE 1 U	1	
53	VXA5769	VXA6078	CLEANER SOLENOID U	1 1	
53-1	VSJ0222	VSJ0226	CLEANER SOLENOID	1	
53-2	VMA9521	VMA9877	CLEANER SOLENOID BASE	111	
54	. VMM0415	VMM0429	CLEANER INTERLOCK	1 1	
58		VMT0871	SILENCER PAD A	0-→1	



### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Prevention of M and L Cassettes Mis-detection

Please use this supplement together with the Service Manual as follows:						
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D750E/EN	129	VSD9606M502A	L7TRB0001			
AJ-D650E	102	VSD9612MJ01A	L7TRA0001			
AJ-D640E	102	VSD9612MJ01A	L7TRA0001			

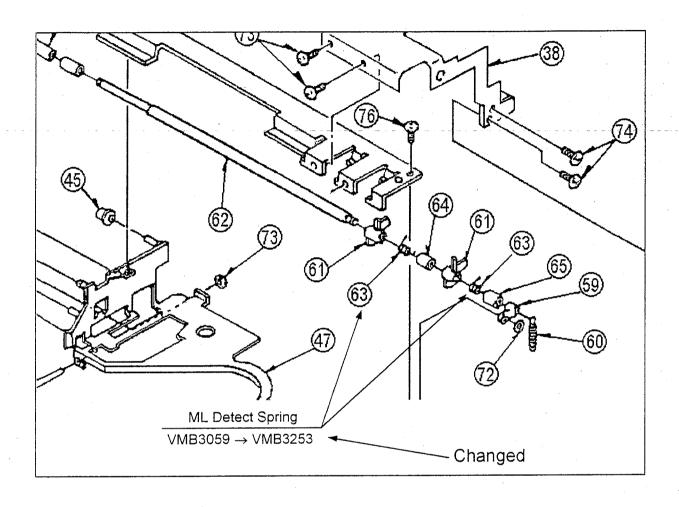
#### Cassette Compartment Assembly

Symptom: M and L cassettes may be detected incorrectly.

Cause : ML Detection Spring may catch in the Cassette Pressure Roller.

Remedy: To prevent it, the ML Detection Spring is changed from VMB3059 to VMB3253 as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
63	VMB3059	VMB3253	ML DETECTION SPRING	2	No.



## Supplement to the Service Manual

**Broadcast Product** 

#### Subject : Software Version Up Grades

Please use this supplement together with the Service Manual as follows :						
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D750E/EN	136	VSD9606M502A/B	B8TRB0001			
AJ-D650E √	108	VSD9612MJ01A/B	B8TRA0001			
AJ-D640E √	108	VSD9612MJ01A/B	B8TRA0001			

Board: REC PB (F5:VEP83353B)

The following software has been up-dated to improve the functioning of the VTR.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC501	M37709M4L162	M37709M4L165	F5 SBC1 PROM Ver. 2.00	1	
IC601	M37709M4L162	M37709M4L165	F5 SBC1 PROM Ver. 2.00	1	

#### < Improvement of Performance >

1. A part of data of the sub code area may become format error. It is corrected.

### Supplement to the Service Manual

**Broadcast Product** 

**Subject: Software Version Up Grades** 

Please use this supplement together with the Service Manual as follows :						
Model No.	Bulletin No.	Order No.	Effective from			
AJ-D650E	109	VSD9612MJ01A/B	D8TRA0001			
AJ-D640E	109	VSD9612MJ01A/B	D8TRA0001			

Board: Servo (F1:VEP82105B)

System Control (F2:VEP86146E) - AJ-D650 System Control (F2:VEP86146F) - AJ-D640

The following software have been up-dated to improve the functioning of the VTR.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC235	VS12280K	VSI2280L	F1 SERVO PROM Ver. P1.10	1	
IC702	VSI2399D	VSI2399E	F2 AV PROM Ver. P1.05	1	

#### < TEST MENU >

* SERVO	IC235	: F1-P1.10	E59B	SYSTEM	IC2	: F2-P1.04	951C	AJ-D650
* AV	IC702	: F2-P1.05	CE7E	SYSTEM	IC2	: F2-P1.04	OBB0	AJ-D640
FRONT	IC2	: FP-1.02	6AB2	I/F	IC503	: F2-P1.05	BFBC	AJ-D650
				I/F	IC503	F2-P1 05	827D	A.J-D640

#### \* Note \*

The hardware modification must be required since the following software version. (Servo/P1.08, System Control/P1.02, Interface/P1.04, AV/P1.03, Front/1.01). When the software is up-graded this time, please confirm the P.C. Board version. If the P.C. Board is not modified, the following modification must be performed.

[H3 EQ Board]

Please refer to the Technical Bulletin No. VSD9705SC620.

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#### < improvement of Performance >

#### < Servo / AV >

1. Phases of the PCM Audio CH1/CH2 may be shifted when the unit goes to PLAY mode right after the loading completion under following condition.

Operation SETUP Menu No. 103 AUDIO MUTE : OFF

TAPE/EE SW on the Front Panel: TAPE

Servo software version: P1.09

It is improved.

\* Note \*

Servo / AV PROM must be up-graded at the same time.

#### < Servo >

1. AUTO OFF "WINDUP ERROR" may occur when the L cassette tape which is not recorded is running with X 0.03 mode at the near tape end. It is improved.

#### < AV >

1. Phases of the PCM Audio CH1/CH2 may be shifted during DV/DVCAM Playback mode. It is improved.

2. Phases of the PCM Audio CH1/CH2 may be shifted when the unit goes from STOP to PLAY mode selecting EE of the Operation SETUP Menu No. 111 STOP EE SEL. It is improved.

## Supplement to the Service Manual

**Broadcast Product** 

### Subject : Software Version Up Grades

	the with the Service Man	ual as follows :	
	together with the Service Man Bulletin No.	Order No.	Effective from
Model No.	_	VSD9612MJ01A/B	G8TRA0001
AJ-D650E	112	VSD9612MJ01A/B	F8TRA0141
AJ-D640E	112	V3D3012M001142	

Board: Servo (F1:VEP82105B)

System Control (F2:VEP86146E) - AJ-D650 System Control (F2:VEP86146F) - AJ-D640

Front CPU (VEP86256A)

The following software have been up-dated to improve the functioning of the VTR.

art Number			Part Name & Descriptions	Pcs	Remarks
Ref. No. C235 C2 C2 C503 C503 C702	Original Part No.  VSI2280L  VSI2397D  VSI2400D  VSI2398E  VSI2401E  VSI2399E  VSI2386B	New Part No.  VSI2280M  VSI2397F  VSI2400E  VSI2398G  VSI2401F  VSI2399F  VSI2386C	F1 SERVO PROM Ver. P1.11 F2 SYSTEM PROM Ver. P1.06 F2 SYSTEM PROM Ver. P1.05 F2 I/F PROM Ver. P1.07 F2 I/F PROM Ver. P1.06 F2 AV PROM Ver. P1.06 FRONT PROMVer.1.03	i	for AJ-D650 for AJ-D640 for AJ-D650 for AJ-D640

#### < TEST MENU >

* SERVO * AV * FRONT	: F1-P1.11 : F2-P1.06 : FP-1.03	DA40 7BE1 0509	333 I/I 10000	: F2-P1.06 : F2-P1.05 : F2-P1.07 : F2-P1.06	B491 4356 9B5A 528D	AJ-D650 AJ-D640 AJ-D650 AJ-D640
6000			₩ 1/F 10303			

The marked (\*) versions are the devices which have been changed from this software revision.

#### \* Note \*

The hardware modification must be required since the following software version. (Servo/P1.08, System Control/P1.02, Interface/P1.04, AV/P1.03, Front/1.01). When the software is up-graded this time, please confirm the P.C. Board version. If the P.C. Board is not modified, the following modification must be performed.

[H3 EQ Board]

Please refer to the Technical Bulletin No. VSD9705SC620.

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#### < Additional Function >

- < System Control >
- 1. 402:DRUM STDBY select function is introduced on the TAPE PROTECT SETUP Menu as follows. As the Drum rotation time is accounted during Half Loading mode, it is improved.

	Item		Setting	
No.	Superimposed Display	No.	Superimposed Display	Description
402	DRUM STDBY	0000 0001	OFF ON	This selects the drum operation in the Stand-by OFF mode.  0 : The drum stop rotating.
		0001		1 : The drum continues rotating.

403:STOP PROTECT select function is introduced on the TAPE PROTECT SETUP Menu as follows.
 When the Stand-by mode is ON at 5 minuets before ON Air, the unit goes to Stand-by OFF mode because
 the Still Timer maximum time is 2 minutes. It is improved.

	Item		Setting	
No.	Superimposed Display	No.	Superimposed Display	
403	STOP PROTECT	0000 0001	STEP HALE	This selects the operation in the tape protection mode when the unit is left standing in the STOP mode.  0 : STEP FWD  1 : HALF LOADING  < Note >  When STEP FWD is selected, the unit is automatically transferred to the HALF LOADING mode when the total time during which is left standing in the STOP mode reaches 30 minutes (DVCPRO) or 1 minute (DV/DVCAM).

#### < Servo / System Control >

725:CUE SLOW select function is introduced on the AUDIO SETUP Menu as follows.
 To improve the CUE Audio sound during SLOW Playback mode, it is switched to Intermittent Slow and Linear Slow.

	Item		Setting	
No.	Superimposed Display	No.	Superimposed Display	Description
725	CUE SLOW	0000	STEP LINEAR	<ul> <li>This selects the tape travel status (CUE track playback status) during SLOW Playback.</li> <li>0 : Priority is given to the output picture, and tape travel is set to the step feed status.</li> <li>1 : Priority is given to CUE track Playback, and the tape travel is set to the linear status.</li> <li>&lt; Note &gt;</li> <li>When "1" (LINEAR) has been set:</li> <li>1. It may not be possible to achieve as clear a picture as in the "STEP" mode.</li> <li>2. CTL counter may not operate properly.</li> </ul>

2. A11:PLAY RESPNS select function is introduced on the Servo Adjust of the Service Menu as follows. Rising time shortening from STOP mode to PLAY mode can be available on the Service Menu as follows.

No.	Item	Setting Value	Contents of Setting and Adjustment	Remark
A11	PLAY RESPNS		This selects the rising time from the STOP and	
^'''	1 2 (1 1 (2 0 1 1 1 0	0001 QUICK	JOG/VAR/SHTL to PLAY mode.	
			0: Rising time is not shortened.	
			1 : Rising time is shortened.	

#### < Note >

The Servo and System Control PROM must be up-graded at the same time.

#### < System Control / Interface >

1. 114:REC INHIBIT select function can be available on the OPERATION SETUP Menu as follows.

	Item		Setting	
No.	Superimposed Display	No.	Superimposed Display	Description
114	REC INHIBIT	0000 0001	OFF ON	This selects whether to allow (enable) or prohibit (disable) the recording of signals on the cassette tape.  0 : Signals can be recorded on the cassette tape when the cassette's accidental erasure prevention mechanism is set to the recording enable position.  1 : Recording on the cassette tape is prohibited. In this case, the REC INH lamp on the Front Panel lights.

#### < Note >

The System Control and Interface PROM must be up-graded at the same time.

2. Audio Memory Unit (AJ-YA752) can be operated from the RS-232C and the 315:AUD MEM UNIT is introduced on the EDIT SETUP Menu as follows. (Only for AJ-D650)

	Item	Setting		
No.	Superimposed Display	No.	Superimposed Display	Description
315	AUD MEM UNIT	0000 0001 0002 0003	MODE1 MODE2	This selects the connection with the AJ-YA752 Audio Memory Unit.  0: When the Audio Memory unit is not going to be used  1: When a Voice-Over operation is to be conducted  2: When Audio Cross channel editing is to be performed for CH2  3: When Audio Cross channel editing is to be performed for CH1  < Note >  1. The RS-232C interface will function only when this menu item is set to "0" (OFF).  2. Refer to the Instruction Manual of the AJ-YA752 Audio Memory unit for details on how the modes are used.

#### < Note >

When connecting AJ-D750 to Audio Memory Unit (AJ-YA752), make the setting as follows.

- Voice Over Editing
  - 1. Set AUDIO INPUT SELECT to ANALOG.
  - 2. Set TC SW to INT.
  - 3. When operating with the Editing Controller, set CONTROL SW to REMOTE.
  - 4. Set the SETUP Menu No. 315:AUD MEM UNIT to 0001 (MODE1).
- Cross-fade Editing

Recording of audio signal cross-faded to CH2

- 1. Set AUDIO INPUT SELECT to ANALOG.
- 2. Set TC SW to INT.
- 3. Set CONTROL SW to REMOTE.
- 4. Set the SETUP Menu No. 315:AUD MEM UNIT to 0002 (MODE2).

Recording of audio signal cross-faded to CH1

- 1. Set AUDIO INPUT SELECT to ANALOG.
- 2. Set TC SW to INT.
- 3. Set CONTROL SW to REMOTE.
- 4. Set the SETUP Menu No. 315:AUD MEM UNIT to 0003 (MODE3).

#### < System Control / Front >

1. Setup Menu Lock function (30:MENU LOCK) is introduced on the SYSTEM SETUP Menu as follows.

#### < Note >

When the above Menu setting is changed, the allowance or prohibit of Setup Menu change can be available. This setting can only be saved after closing the menu during pressing the SET key or MENU key.

2. User Menu Lock function (A03:MENU LOCK) is introduced on the SETUP Menu as follows. USER2, USER3, USER4 and USER5 files are locked but USER1 file cannot be locked.

#### < Note >

When the above Menu setting is changed, the allowance or prohibit of Setup Menu change can be available. This setting can only be saved after closing the menu during pressing the SET key. It cannot be saved after closing the menu during pressing the MENU key.

	Item		Setting	
No.	Superimposed Display	No.	Superimposed Display	Description
30	MENU LOCK	0000	OFE ON	This selects whether the system file lock mode is to be engaged or released.
				O : The lock is released (file data can be changed)  The lock is engaged (file data cannot be changed)  1 : The lock is engaged (file data cannot be changed)
A03	MENU LOCK	0000 0001	OFE ON	This selects whether to set or release the user file (USER2 - USER5) lock mode.  0 : The lock is released (changes can be made).  1 : The lock is set (changes are prohibited).
				< Note > The lock cannot be set for USER1.

3. User Menu LOAD/SAVE functions (A00:LOAD, A01:SAVE) are introduced only on the USER1 of SETUP as follows.

#### < Note 1 >

Setting which selects A00:LOAD or A01:SAVE is not backed up. When the power is turned ON, the initial setting is always USER2. When the setting is changed after power ON, the changed setting is displayed.

When selected A01:SAVE, user file which set the MENU LOCK is not displayed on the Menu and the unlocked file which is smallest number file within USER2 ~ USER5 is displayed. When all files is locked the setting, "LOCKED" is displayed.

	Item		Setting	
No.	Superimposed Display	No.	Superimposed Display	Description
A00	LOAD	0000 0001 0002 0003	USER2 USER3 USER4 USER5	This selects the user file whose contents will be loaded into USER1.  0 : The USER2 file contents are loaded.  1 : The USER3 file contents are loaded.  2 : The USER4 file contents are loaded.  3 : The USER5 file contents are loaded.  < Note >  When the SET button is pressed after loading, the setting will be stored in the memory. When the menu button is pressed, setting will not be changed.
A01	SAVE	0000 0001 0002 0003 0004		This selects the user file into which the USER1 setting will be saved  0 : The settings are saved in USER2.  1 : The settings are saved in USER3.  2 : The settings are saved in USER4.  3 : The settings are saved in USER5.  4 : This display appears when all user files are in the change prohibit status.

	ltem		Setting	
No.	Superimposed Display	No.	Superimposed Display	Description
				<ul> <li>Notes &gt;</li> <li>1. User files whose status have been set to change prohibit cannot be selected.</li> <li>2. When all user files are in the change prohibit status, the "LOCKED" display appears and the contents cannot be saved.</li> </ul>

4. Power ON LOAD function (A02:P. ON LOAD) is introduced only on the USER1 of SETUP Menu as follows. When the power is turned ON, the appointed user file is loaded to USER1 and then started the USER1 setting.

	Item		Setting	
No.	Superimposed Display	No.	Superimposed Display	Description
A02	P.ON LOAD	0000 0001 0002 0003 0004	DEF USER2 USER3 USER4 USER5	<ul> <li>This loads the contents of the selected user file into USER1 and it starts operation with the USER1 settings when the power is turned on.</li> <li>0 : Operation is started with the settings of the previously set user file.</li> <li>1 : The contents of USER2 are loaded into USER1 and operation is started with the USER1 settings.</li> <li>2 : The contents of USER3 are loaded into USER1 and operation is started with the USER1 settings.</li> <li>3 : The contents of USER4 are loaded into USER1 and operation is started with the USER1 settings.</li> <li>4 : The contents of USER5 are loaded into USER1 and operation is started with the USER1 settings.</li> </ul>

#### < Note >

The System Control and Front PROM must be up-graded at the same time to operate the following Menu. 30 : MENU LOCK, A00 : LOCK, A01 : SAVE, A02 : P.ON LOAD, A03 : MENU LOCK

- < Servo / System Control / Interface >
  - 1. Stop response from PLAY/SHTL mode to STOP mode is improved. 115:STOP RESPNS is introduced on the OPERATION SETUP Menu as follows.

	Item		Setting	
No.	Superimposed Display	No.	Superimposed Display	Description
115	STOP RESPNS	0000	NORMAL QUICK	This selects the response when the mode is changed to STOP/STILL while the tape is traveling.  0 : Priority is given to the output picture.  1 : Priority is given to the response.  < Notes >  1. At the "1" (QUICK) setting, the picture may not be as clear in the STOP/STILL mode as it would be at the "0" (NORMAL) setting.  2. CTL may shift by ± 2 frames.

#### < Note >

The Servo, System Control and Interface PROM must be up-graded at the same time.

2. 108:FORMAT SEL switching can be available when the tape is not ejected. When the setting mode of FORMAT SEL and the cassette size are different from the active format, the unit goes to STAND-BY OFF mode and the FORMAT can be switched.

#### < System Control / Interface / Front >

1. VAR/JOG speed select function is changed as follows to operate easy.

1). The following Menus (300:VAR RANGE and 314:JOG RANGE) are deleted.

2). To set the optional maximum speed, the following Menus are added as follows.

317 : VAR FWD MAX 318 : VAR REV MAX 320 : JOG FWD MAX 321 : JOG REV MAX

3). To select the speed and picture quality, the following Menus are added as follows.

316 : VAR STEP (FINE/COARSE) 319 : JOG STEP (FINE/COARSE)

	Item	l	Setting	
	Superimposed		Superimposed	Description
No.	Display	No.	Display	<u> </u>
316	VAR STEP	0000	FINE	This selects the VAR speed during Remote Control operations.
		0001	COARSE	0 : The tape is played at the fine step speed.
				1 : The tape is played at a speed at which noise-less playback is
				possible in the -0.43X to $\pm$ 1X (-0.5X to $\pm$ 1X) range.
				< Notes >
				1. The tape will be played at the speed given in parentheses in the
				DV/DVCAM mode.
1				2. At the "1" (COARSE) setting, the phase cannot be synchronized
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			from the editing controller.
317	VAR FWD	0000	<u>+4.1</u>	This sets the maximum VAR FWD speed.
	MAX	0001	+1.85 +1	0 : +4.1X (In DV format, +3.1X) speed
		0002 0003	+1 +0.75	1 : +1.85X (In DV format, +1.85X) speed 2 : +1X (In DV format, +1X) speed
	·	0003	+0.75	2 : +1X (In DV format, +1X) speed 3 : +0.75X (In DV format, +0.5X) speed
		0004	+0.3	4 : +0.5X (In DV format, +0.5X) speed
		0006	+0.2	5 : +0.3X (In DV format, +0.3X) speed
		0007	+0.1	6 : +0.2X (In DV format, +0.2X) speed
		0008	+0.03	7 : +0.1X (In DV format, +0.1X) speed
		0000	. 0,00	8 : +0.03X (In DV format, +0.03X) speed
				< Notes >
				1. The tape will be played at the speed given in parentheses in the
			•	DV/DVCAM mode.
				2. In the DV/DVCAM mode, the maximum speed is set to +1X when
				the dial on the front panel is operated.
				3. At any speed setting other than 0 (+4.1X), the phase cannot be
				synchronized from the editing controller.
318	VAR REV	0000	<u>-4.1</u>	This sets the maximum VAR REV speed.
	MAX	0001	-1.85	0 : -4.1X (In DV format, -3.1X) speed
		0002	-1	1 : -1.85X (In DV format, -1.85X) speed
1		0003	-0.43	2 : -1X (In DV format, -1X) speed
		0004	-0.3	3 : -0.43X (In DV format, -0.5X) speed
		0005	-0.2	4 : -0.3X (In DV format, -0.3X) speed
		0006	-0.1	5 : -0.2X (In DV format, -0.2X) speed
		0007	-0.03	6 : -0.1X (In DV format, -0.1X) speed
				7 : -0.03X (In DV format, -0.03X) speed
	+			< Notes >
			·	1. The tape will be played at the speed given in parentheses in the
				DV/DVCAM mode.  2. In the DV/DVCAM mode, the maximum speed is set to –0.5X when
				the dial on the front panel is operated.
		<u> </u>		the dial on the hont paneris operated.

	Item		Setting	
No.	Superimposed	No.	Superimposed	Description
	Display	140.	Display	
319	JOG STEP	0000	FINE	This selects the JOG speed during Remote Control operations.
1		0001	COARSE	0 : The tape is played at the fine step speed.
				1 : The tape is played at a speed at which noise-less playback is
'			* .	possible in the -0.43X to +1X (-0.5X to +1X) range.
				< Notes >
	·		*	The tape will be played at the speed given in parentheses in the
				DV/DVCAM mode.
				2. At the "1" (COARSE) setting, the phase cannot be synchronized
		- "		from an editing controller which synchronizes the phase using the
				JOG command
320	JOG FWD	0000	+4.1	This sets the maximum JOG FWD speed.
	MAX	0001	+1.85	0 : +4.1X (In DV format, +3.1X) speed
		0002	<u>+1</u>	1 : +1.85X (In DV format, +1.85X) speed
				2 : +1X (In DV format, +1X) speed
ļ .				< Notes >
			* .	<ol> <li>The tape will be played at the speed given in parentheses in the DV/DVCAM mode.</li> </ol>
				2. The maximum speed is set to +1X when the dial on the front panel is operated.
			·	3. At any speed setting other than 0 (+4.1X), the phase cannot be
]				synchronized from the editing controller which synchronizes the
		·		phase using the JOG command.
321	JOG REV	0000	-4.1	This sets the maximum JOG REV speed.
	MAX	0001	-1.85	0 : -4.1X (In DV format, -3.1X) speed
·		0002	-1	1 : -1.85X (In DV format, -1.85X) speed
		0003	<u>-0.43</u>	2 : -1X (In DV format, -1X) speed
				3 : -0.43X (In DV format, -0.5X) speed
				< Notes >
			,	The tape will be played at the speed given in parentheses in the
				DV/DVCAM mode.
				2. When the dial on the front panel is operated, the maximum speed
			·	is set to –1X in the DVCPRO mode and – to 0.5X in DV/DVCAM
				mode.

#### < Note >

The setting value of the VAR/JOG speed range is changed according to the System Control software version as follows.

#### \* In case of System Control software version is less than P1.03

	Speed Setting (00	00 :43X ~ 1X)	Speed Setting (0001 : -4X ~ +4X)		
Current Menu	New M	lenu	New M	lenu	
300 : VAR RANGE	316 : VAR STEP	0001 : COARSE	316 : VAR STEP	0000 : FINE	
	317 : VAR FWD MAX	0002 : +1X	317 : VAR FWD MAX	0000 : +4.1X	
	318 : VAR REV MAX	0003 : - 0.43X	318 : VAR REV MAX	0000 : - 4.1X	
	319 : JOG STEP	0001 : COARSE	319 : JOG STEP	0000 : FINE	
	320 : JOG FWD MAX	0002 : +1X	320 : JOG FWD MAX	0000 : +4.1X	
	321 : JOG REV MAX	0003 : - 0.43X	321 : JOG REV MAX	0000 : - 4.1X	

#### \* In case of System Control software version is more than P1.03

	Speed Setting (000	00 :43X ~ 1X)	Speed Setting (0001 : -4X ~ +4X)  New Menu		
Current Menu	New M	enu			
300 : VAR RANGE	316 : VAR STEP	0001 : COARSE	316 : VAR STEP	0000 : FINE	
	317 : VAR FWD MAX	0002:+1X	317 : VAR FWD MAX	0000 : +4.1X	
	318 : VAR REV MAX	0003 : - 0.43X	318 : VAR REV MAX	0000 : - 4.1X	
314 : JOG RANGE	319 : JOG STEP	0001 : COARSE	319 : JOG STEP	0000 : FINE	
	320 : JOG FWD MAX	0002:+1X	320 : JOG FWD MAX	0000 : +4.1X	
	321 : JOG REV MAX	0003 : - 0.43X	321 : JOG REV MAX	0000 : - 4.1X	

#### < Improvement of Performance >

#### < Servo >

1. Cylinder control phase response is improved.

2. When the tape is wound from no recorded portion, the picture is not renewed regularly. It is improved.

3. When the tape goes to no prepared portion for editing during INSERT Edit mode, it is recorded. It is improved. When above condition, servo is unlocked.

4. AUTO OFF "WINDUP\_ERROR" may occur during REV mode. It is improved.

5. When the unit goes to Short FF mode after REW mode, the remaining time is cleared. It is improved.

6. Abnormal sound may occur during X -9.5 mode. It is improved.

7. When the tape is loaded at the beginning of the L cassette tape, tape may loosen after loading completion. It is improved.

#### < System Control >

1. Rising time of PCM Audio from STILL mode to PLAY mode is too late. It is improved.

2. When the tape is inserted after detecting the DEW (AUTO OFF) during EJECT mode, the unit does not detect the tape end/beginning. It is improved.

#### < AV >

1. When the input signal is BLACK during SDI IN mode, the input level meter is swung. It is improved.

2. Audio pop noise may occur when the tape is recorded on the DVCPRO Studio VTR. It may occur during INT BB REC mode. It is improved.

3. FULL EE control from the Editing Controller cannot be performed during Search mode (VTR side). It is improved.

4. Audio noise may appear when the mode is changed from no REF IN signal to REF IN signal during 304 : SERVO REF is EXT. It is improved. Audio output is muted for 2 seconds.

#### < Interface >

1. OSF/OSR for the SHTL command of RS-232C is not accepted. It is improved.

2. When the AUTO OFF "DEW" is occurred again after occurring "DEW", the "DEW" is displayed on the Front Panel not but on the Superimpose. It is improved.

3. When the Recorder side is used AU-650B and the Player side is used AJ-D750 in the deck to deck Editing mode, the synchronization cannot be performed while using the DV tape with the Player side. (AJ-D750) It is improved.

#### < Front >

1. When the power is turned ON, "INITIAL SET" and "EJECT" are only displayed and the other LED and level meter are not displayed. And the operation keys are not functioned. It is improved.

2. TCG (UBG) does not go to PRESET mode during displaying the Remain time. It is improved.

- < Servo / System Control >
- 1. When the FORMAT SEL is selected the DVCPRO during inserting the L cassette ME tape, STILL time becomes long, and then the head clogging may occur. When the CTL is not detected, STILL timer is shortened.
- < System Control / Front >
- 1. Picture quality is improved during SHTL mode.
- < System Control / Interface / Front >
- 1. When the power is turned OFF to ON, UBG value is reset to "00:00:00:00". It is backed up.

### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Improvement of Pinch Roller

ease use this supplement together with the Service Manual as follows :				
Model No.	Bulletin No.	Order No.	Effective from	
AJ-D750E/EN	144	VSD9606M502A	C8TRB0001	
AJ-D650E	116	VSD9612MJ01A	C8TRA0001	
AJ-D640E	116	VSD9612MJ01A	C8TRA0001	

Mechanical Chassis Assembly (2)

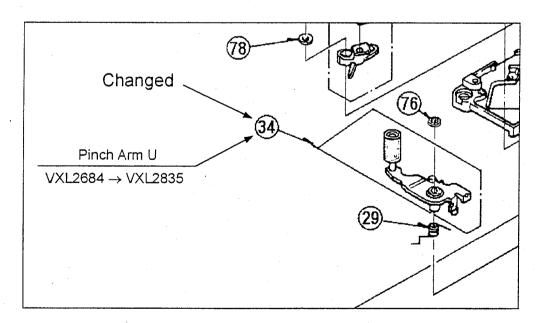
Symptom: Pinch Roller may be cracked.

Cause : Due to the lack of plasticizer from the Pinch Roller rubber and atmosphere. (Ozone) It results in

Pinch Roller crack.

Remedy: To prevent it, the Pinch Arm Unit is changed from VXL2684 to VXL2835 as shown below.

Part Number						
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks	,
34	VXL2684	VXL2835	PINCH ARM U	1		



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### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Improvement of Main Cam Arm Unit

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	146	VSD9606M502A	D8TRB0001
AJ-D650E	117	VSD9612MJ01A	D8TRA0001
AJ-D640E	117	VSD9612MJ01A	D8TRA0001

#### Mechanical Chassis Assembly (2)

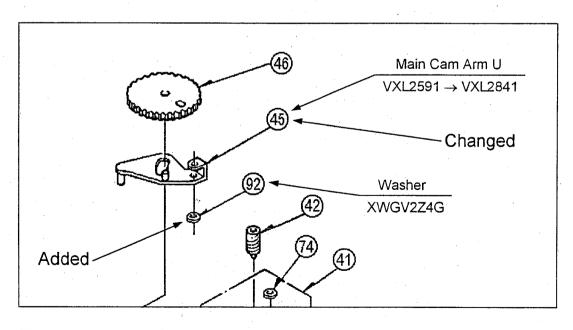
Symptom: U-shaped portion of the Main Cam Arm Unit may be broken when the loading is repeated.

Cause : Due to the lack of material strength.

Remedy: To prevent it, the Main Cam Arm Unit is changed from VXL2591 to VXL2841 and the washer

(XWGV2Z4G) is added under the Main Cam Arm Unit as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
45	VXL2591	VXL2841	MAIN CAM ARM U	1	
92.		XWGV2Z4G	WASHER	0→1	



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### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Expansion of Variable Range of SYS SC FINE

se use this supplement together with the Service Manual as follows :					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D650E	125	VSD9612MJ01A/B	G8TRA0001		
AJ-D640E	125	VSD9612MJ01A/B	G8TRA0001		
AJ-D780E	. 5	VSD9809M612A/B	G8TRA0001		

Board: V OUT (F4:VEP83352B) - AJ-D640/D650 V OUT (F4:VEP83352E) - AJ-D780

Symptom : 1). Total variable range of SYS SC FINE is less than  $\pm$  90 degrees.

2). Burst Adjustment (Electrical Adjustments item 7-11.) cannot be performed.

Cause

: 1). Variable range of the control DC voltage for SYS SC FINE is narrow.

2). The dispersion of offset voltage for the VCO X901 is broad.

- Remedy : 1). The value of R1010 has been changed from 1/16W,  $1.5K\Omega$  to 1/16W,  $2.2K\Omega$  on the foil side.
  - 2). a). The value and tolerance of R921 and R922 have been changed from 1/16W,  $10K\Omega$  to 1/16W,  $1K\Omega$  on the foil side.
    - b), R950 (1/4W,  $27K\Omega$ ) has been added between pin #3 of IC916 and R920 on the foil side.

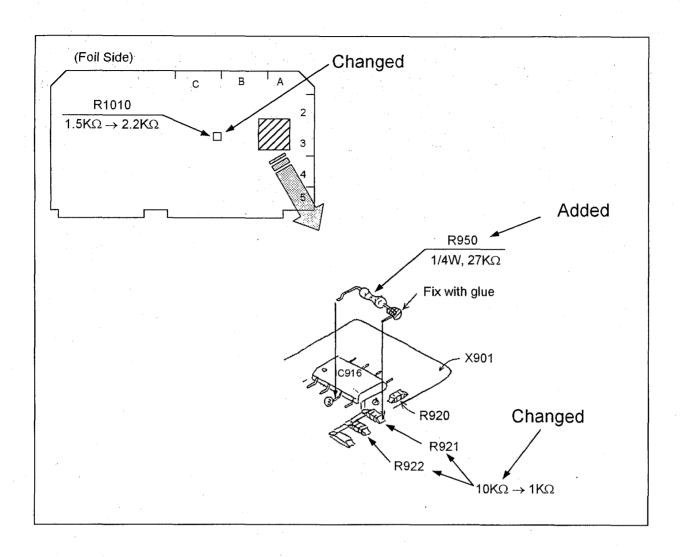
Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R921, 922	ERJ3GEYJ103	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R950		ERDS2TJ273	C. RESISTOR 1/4W 27K	0→1	
R1010	ERJ3GEYJ152	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	

After doing the above modification, Burst Adjustment (Electrical Adjustments item 7-11.) should be performed.

- \* When total variable range of SYS SC FINE is still less than  $\pm$  90 degrees after doing the above modification, change the value of R950 to 12 kΩ (ERDS2TJ123). And confirm that total variable range of SYS SC FINE is more than  $\pm\,90$  degrees after re-adjusting Burst Adjustment.
- If total variable range of SYS SC FINE is still less than  $\pm$  90 degrees after changing the value of R950 to 12 k $\Omega$ , delete R950. And confirm that total variable range of SYS SC FINE is more than  $\pm$  90 degrees after re-adjusting Burst Adjustment.

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(continued to the next page)



### Supplement to the Service Manual

**Broadcast Product** 

Subject: Software Version Up Grade

Please use this supplement together with the Service Manual as follows :					
Model No.	Bulletin No.	Order No.	Effective from		
AJ-D650E	129	VSD9612MJ01A/B	J8TRA0001		
AJ-D640E	129	VSD9612MJ01A/B	J8TRA0001		

Board: Servo (F1:VEP82105B)

The following software has been up-dated to improve the functioning of the VTR.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
IC235	VSI2280M	VSI2280N	F1 SERVO PROM Ver. P1.12	1	

#### < TEST MENU >

* SERVO	IC235	: F1-P1.12	0ADC	SYSTEM IC2	: F2-P1.06	B491	AJ-D650
AV	IC702	: F2-P1.06	7BE1	SYSTEM IC2	: F2-P1.05	4356	AJ-D640
FRONT	IC2	: FP-1.03	0509	I/F IC503	: F2-P1.07	9B5A	AJ-D650
				I/E IC503	· F2-P1.06	528D	A.I-D640

The marked (\*) versions are the devices which have been changed from this software revision.

#### \* Note \*

The hardware modification must be required since the following software version. (Servo/P1.08, System Control/P1.02, Interface/P1.04, AV/P1.03, Front/1.01). When the software is up-graded this time, please confirm the P.C. Board version. If the P.C. Board is not modified, the following modification must be performed.

[H3 EQ Board]

Please refer to the Technical Bulletin No. VSD9705SC620.

#### < Improvement of Performance >

#### < Servo >

1. AUTO OFF "WINDUP ERROR" may occur when the L184 (L cassette) tape is run in the DV or DVCAM mode right after power ON. It is improved.

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### Supplement to the Service Manual

**Broadcast Product** 

#### Subject: Countermeasure for No Video Condition during Power ON/OFF

ase use this supplement together with the Service Manual as follows :				
Model No.	Bulletin No.	Order No.	Effective from	
AJ-D650E	130	VSD9612MJ01A/B	L8TRA0001	
AJ-D640E	130	VSD9612MJ01A/B	L8TRA0001	
AJ-D780E	12	VSD9809M612A/B	L8TRA0001	

Board : V OUT (F4:VEP83352B) - AJ-D640/D650 V OUT (F4:VEP83352E) - AJ-D780

Symptom: Picture may become no video condition when the power is turned ON/OFF repeatedly.

Cause : PLD on the F4 V OUT Board may malfunction by the noise from power supply due to the ISP terminal

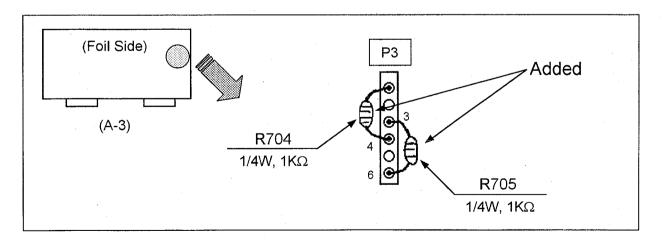
open.

Remedy: To prevent it, the following modification is performed.

1). Resistor R704 (1/4W, 1K $\Omega$ ) is added between pins #1 and #4 of P3 on the foil side as shown

2). Resistor R705 (1/4W, 1K $\Omega$ ) is added between pins #3 and #6 of P3 on the foil side as shown below.

Part Number					
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
R704, 705		ERDS2TJ102	C. RESISTOR 1/4W 1K	0→2	"



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### Supplement to the Service Manual

**Broadcast Product** 

#### **Subject: Strengthening GND of Power Unit**

Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	166	VSD9606M502A/B	B9TRB0001
AJ-D650E √	134	VSD9612MJ01A/B	B9TRA0001
AJ-D640E √	134	VSD9612MJ01A/B	B9TRA0001

Board: Power 2 (VEP81075B)

Symptom: When power is turned on, power supply circuit may fail to start up.

Cause : The detection circuit of over-voltage operates for noise at starting up of power supply circuit.

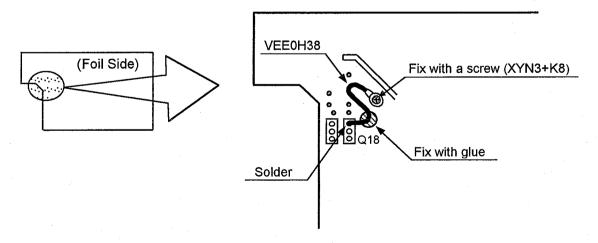
Remedy: A jumper wire has been added to strengthen GND of Power 2 circuit.

Part Number						
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks	
		VEE0H38	JUMPER WIRE	0→1		
	XYN3+C8FZS	XYN3+K8	SCREW	1 1 .		

#### Installation of jumper wire

- 1. Exchange the screw (XYN3+C8FZS) fixing the heat sink with XYN3+K8 and fix a jumper wire (VEE0H38) to the heat sink with this new screw.
- 2. Solder the jumper wire as shown below.
- 3. Fix the jumper wire with glue as shown below.

  Note. Be careful so that the jumper wire doesn't pass on the leg of component.



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### Supplement to the Service Manual

The parts shown below have been changed for standardization.

**Broadcast Product** 

#### Subject: Change of Cassette Compartment Assembly

riease use this supple	ment together with the Service Manu	al as follows:	<del></del>
Model No.	Bulletin No.	Order No.	Effective from
AJ-D750E/EN	178	VSD9606M502A ~	Running change
AJ-D850E	15	VSD9903M901A ~	Running change
AJ-D650E	144	VSD9612MJ01A	Running change
AJ-D640E	144	VSD9612MJ01A	Running change
AJ-D450E	4	VSD9907M904A	Running change
AJ-D440E	4	VSD9907M904A	Running change
AJ-D230E	87	VSD9708M605 🗸	Running change
AJ-D230HE	5	VSD9906M605 🛩	Running change
AJ-LT75E	82	VSD9707M602A ~	Running change
AJ-LT85E	15	VSD9902M601A	Running change
AJ-D780E	23	VSD9809M612A	Running change

Cassette Compartment Assembly

V17726 # 2036033 V24143 \$ 2022072

1 UBILS# 1017974

V243024 2023/14

V20162 + 2014141 V24323- 2011104

V13322# 1030051

Part Numbe	er				
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	Remarks
4	VXA5761 XYN2+C3 XQN2+A3	VXA6572 VHD1323 VHD1323	FRONT GUIDE 1 ASS'Y SCREW SCREW	1 11 2	See the exploded views in the next page. See the exploded views in the next page.

Vahors # MODISEN V23053 # 1036071

M1710TM4131:3

# CASSETTE COMPARTMENT ASSEMBLY XYN2+C3 → VHD1323 XYN2+C3 → VHD1323 · VXA5761 → VXA6572 (I) XYN2+C3 → VHD1323 XQN2+A3 → VHD1323